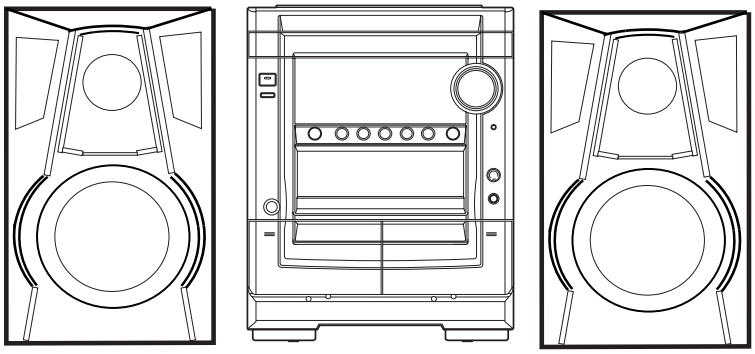
aiwa SERVICE

NSX-AJ700 U
NSX-SZ700 LH
NSX-SZ705 LH



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-3MK2 PR9NM
ZZM-3 PR1NM
BASIC CD MECHANISM : BZG-5 ZD3N1M

SYSTEM	CD CASSEIVER	TAPE MECHANISM	SPEAKER	REMOTE CONTROLLER
NSX–AJ700	CX–NAJ700	ZZM-3 PR1NM	SX–NAJ702	RC–BAS02
NSX–SZ700	CX–NSZ700	2ZM-3MK2 PR9NM	SX–WNSZ703	
NSX–SZ705	CX–NSZ705	2ZM-3MK2 PR9NM	SX–NSZ705	

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” NSX-AJ700 (U) / NSX-SZ700 (LH) / NSX-SZ705 (LH), (S/M Code No. 09-012-441-7T1).
- If requiring information about the CD mechanism, see Service Manual of BZG-5, (S/M Code No. 09-00C-353-3N2).

aiwa

S/M Code No. 09-013-441-7R1

REVISION DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output	U : 100 W + 100 W (50 Hz to 20 kHz, T.H.D. less than 1 %, 6 ohms) 120 W + 120 W (1 kHz, T.H.D. less than 10 %, 6 ohms) LH : Rated 112 W + 112 W (1 kHz, T.H.D. 1 %, 6 ohms) Reference : 140 W + 140 W (6 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion	U : 0.08 % (10 W, 1 kHz, 6 ohms, DIN AUDIO) LH : 0.08 % (70 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO / AUX: 700 mV LH only : MIC : 1.7 mV (10 kohms)
Outputs	SPEAKERS : accept speakers of 6 ohms or more PHONES : accepts headphones of 32 ohms or more

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback x 1 Deck 2 : Recording / Playback x 1, erase x 1

<Speaker system SX–NAJ702 (U)>

Speaker system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer : 160 mm ($6^3/_8$ in.) cone Tweeter : 60 mm ($2^3/_8$ in.) cone
Impedance	6 ohms
Dimensions (W x H x D)	230 x 324 x 253 mm ($9^1/_8$ x $12^7/_8$ x 10 in.)
Weight	4.6 kg (10 lbs 2 oz.)

<Speaker system SX–WNSZ703 (700LH)>

Speaker system	3 way, built-in subwoofer (magnetic shielded type)
Speaker units	Subwoofer : 160 mm cone type Full range : 100 mm cone type Super tweeter : 20 mm ceramic type
Impedance	6 ohms
Dimensions (W x H x D)	230 x 324 x 257 mm
Weight	4.8 kg

<Speaker system SX–NSZ705 (705LH)>

Speaker system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer : 160 mm cone Tweeter : 60 mm cone
Impedance	6 ohms
Dimensions (W x H x D)	230 x 324 x 235 mm
Weight	4.6 kg

<General>

Power requirements	U : 120 V AC, 60 Hz LH : 120 V / 220 – 230 V / 240 V AC, (switchable), 50 / 60 Hz
Power consumption	U : 100 W LH : 130 W
Power consumption in standby mode	With ECO mode on : 0.6 W With ECO mode off : 23 W
Dimensions of main unit (W x H x D)	260 x 326 x 345 mm ($10^1/_4$ x $12^7/_8$ x $13^5/_8$ in.)
Weight of main unit	U : 7.5 kg (16 lbs 9 oz.) LH : 8.4 kg

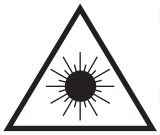
• Design and specifications are subject to change without notice.

• The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

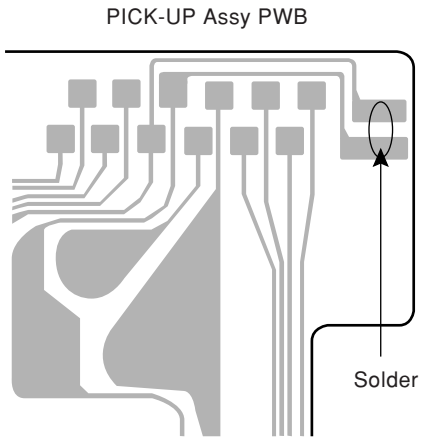
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

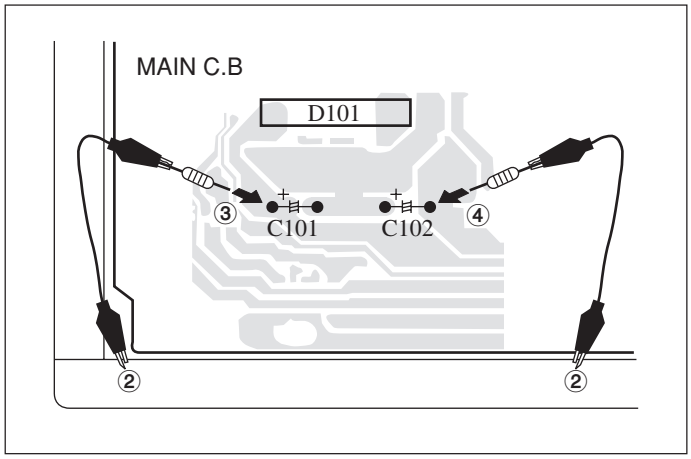


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

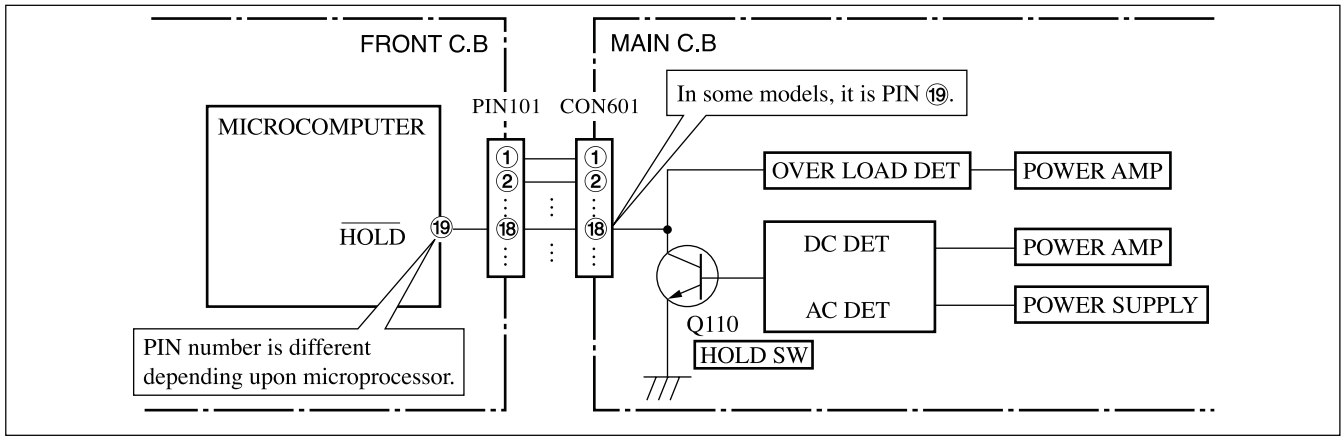


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

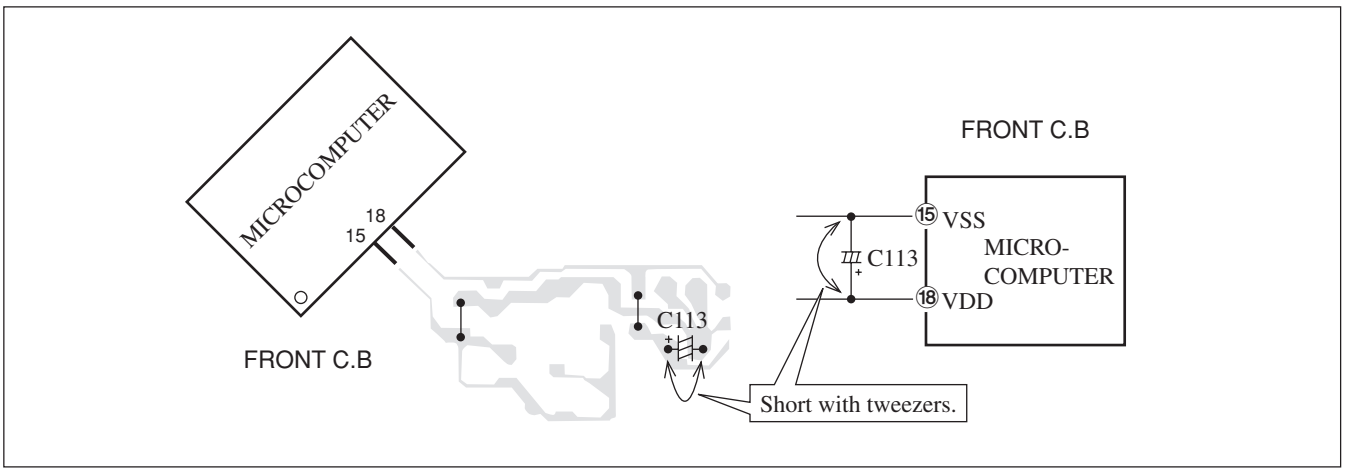


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8B-NF7-631-030		C-IC,LC866560W-5V01
	87-A21-831-010		IC,SPS-422-1-F1
	87-A21-419-040		C-IC,NJM14558MD-TE2
	87-A21-893-040		C-IC,NJM14558V-TE2
	87-A21-023-040		C-IC,BA3835F
	87-A21-401-040		C-IC,M61503FP
	87-A21-695-010		IC,LA1845L
	87-070-127-110		IC,LC72131D
	87-A21-269-010		IC,EW732
TRANSISTOR			
	87-A30-494-080		TR,2SA1980G
	87-A30-559-010		TR,CSB1370EF
	87-A30-492-080		TR,2SC5343G
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-107-070		C-TR,CMBT5401
	87-A30-484-080		C-TR,KRA102S
	87-A30-190-080		TR,CC5551
	87-A30-106-040		C-TR,CMBT5551
	87-A30-098-010		TR,FP 1016
	87-A30-097-010		TR,FN 1016
	87-026-609-080		TR,KTA1266GR
	87-A30-087-080		C-FET,2SK2158
	87-A30-490-080		C-TR,KRC107S
	87-A30-047-080		TR,CSD655E
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-162-010		FET,2SK2937
	87-A30-582-080		TR,CDA1585BC
	87-A30-495-080		TR,2SA1981Y
	87-A30-091-080		FET,2SJ460
	87-A30-090-080		FET,2SK2541
	87-A30-062-080		C-TR,KRC104S
	89-327-143-080		TR,2SC2714O
	87-A30-489-080		C-TR,KRA107S
	89-503-602-080		C-FET,2SK360E
	87-A30-520-080		TR,2SC5342Y
	87-A30-515-080		TR,2SA1979O/Y
	87-A30-234-080		TR,CSC4115BC
	87-A30-216-080		TR,2SA933AS(R)
DIODE			
	87-A40-393-090		DIODE,1N5402GW(F20)
	87-A40-291-080		DIODE,1N4148M(CPT)
	87-A40-838-090		DIODE,G3SBA60L-6088<U>
	87-A40-839-090		DIODE,G5SBA60L-6088<LH>
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-488-080		DIODE,1SS244<LH>
	87-A40-748-080		ZENER,UZ5.6BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-749-080		ZENER,UZ5.6BSB
	87-A40-802-080		ZENER,UZ5.1BSC
	87-A40-739-080		ZENER,UZ2.7BSA
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-A12-317-080		C-CAP,U 0.1-50 Z F
C4	87-A12-317-080		C-CAP,U 0.1-50 Z F
C5	87-A12-317-080		C-CAP,U 0.1-50 Z F
C6	87-A12-317-080		C-CAP,U 0.1-50 Z F
C9	87-010-759-080		C-CAP,U, 0.1-25F
C10	87-010-759-080		C-CAP,U, 0.1-25F
C11	87-010-759-080		C-CAP,U, 0.1-25F
C12	87-010-759-080		C-CAP,U, 0.1-25F
C19	87-A12-382-000		CAP,E 2200-63 M 85 IV LELON<U>
C19	87-A12-383-000		CAP,E 3300-65 M 85 IV LELON<LH>
C20	87-A12-382-000		CAP,E 2200-63 M 85 IV LELON<U>
C20	87-A12-383-000		CAP,E 3300-65 M 85 IV LELON<LH>
C21	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C22	87-A12-780-090		CAP,E 4700-35 M 85 SKR
C31	87-A12-091-080		CAP,E 10-50 SMG
C32	87-012-286-080		CAP, U 0.01-25
C33	87-A12-062-080		CAP,E 100-10 SMG<U>
C34	87-A12-072-080		CAP,E 100-25 SMG
C35	87-A12-071-080		CAP,E 47-25 SMG
C36	87-A12-067-080		CAP,E 330-16 SMG
C38	87-012-286-080		CAP, U 0.01-25
C60	87-A12-089-080		CAP,E 3.3-50 SMG
C61	87-A12-071-080		CAP,E 47-25 SMG
C83	87-A12-074-080		CAP,E 470-25 SMG
C97	87-010-831-080		C-CAP,U,0.1-16F
C101	87-012-279-080		C-CAP,U 2700P-50 B
C102	87-012-279-080		C-CAP,U 2700P-50 B
C103	87-A12-084-080		CAP,E 0.22-50 SMG
C104	87-A12-084-080		CAP,E 0.22-50 SMG
C105	87-012-277-080		C-CAP, U 1800P-50 B<LH>
C106	87-012-277-080		C-CAP, U 1800P-50 B<LH>
C107	87-A12-089-080		CAP,E 3.3-50 SMG
C108	87-A12-089-080		CAP,E 3.3-50 SMG
C111	87-A12-077-080		CAP,E 33-35 SMG
C112	87-A12-077-080		CAP,E 33-35 SMG
C113	87-A10-596-080		C-CAP,S 100P-100 J CH
C114	87-A10-596-080		C-CAP,S 100P-100 J CH
C117	87-A12-317-080		C-CAP,U 0.1-50 Z F
C118	87-A12-317-080		C-CAP,U 0.1-50 Z F
C119	87-012-286-080		CAP, U 0.01-25
C120	87-012-286-080		CAP, U 0.01-25
C123	87-010-177-080		C-CAP,S 820P-50 SL
C124	87-010-177-080		C-CAP,S 820P-50 SL
C133	87-012-282-080		CAP, U 4700P-50
C140	87-012-278-080		C-CAP,U 2200P-50 B
C186	87-010-759-080		C-CAP,U, 0.1-25F
C187	87-010-866-080		CAP, ELECT 10-63
C188	87-010-866-080		CAP, ELECT 10-63
C225	87-A12-317-080		C-CAP,U 0.1-50 Z F
C226	87-A12-317-080		C-CAP,U 0.1-50 Z F
C227	87-A12-317-080		C-CAP,U 0.1-50 Z F
C228	87-A12-317-080		C-CAP,U 0.1-50 Z F
C241	87-010-831-080		C-CAP,U,0.1-16F
C301	87-012-275-080		C-CAP,U 1200P-50 B<U>
C301	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C302	87-012-275-080		C-CAP,U 1200P-50 B<U>
C302	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C303	87-012-275-080		C-CAP,U 1200P-50 B
C304	87-012-275-080		C-CAP,U 1200P-50 B
C307	87-A12-062-080		CAP,E 100-10 SMG
C308	87-A12-062-080		CAP,E 100-10 SMG
C309	87-012-188-080		C-CAP,U 47P-50 CH
C310	87-012-188-080		C-CAP,U 47P-50 CH
C313	87-012-284-080		CAP, U 6800P-50
C314	87-012-284-080		CAP, U 6800P-50
C315	87-A12-062-080		CAP,E 100-10 SMG
C317	87-A12-085-080		CAP,E 0.33-50 SMG
C318	87-A12-085-080		CAP,E 0.33-50 SMG
C326	87-010-787-080		CAP, U 0.022-25
C327	87-010-831-080		C-CAP,U,0.1-16F
C360	87-A12-087-080		CAP,E 1-50 SMG
C399	87-A10-039-080		C-CAP,U 470P-50 J CH
C401	87-A12-083-080		CAP,E 0.1-50 SMG
C402	87-A12-083-080		CAP,E 0.1-50 SMG
C403	87-012-193-080		C-CAP,U 82P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C404	87-012-193-080		C-CAP,U 82P-50 CH
C405	87-012-286-080		CAP, U 0.01-25
C406	87-012-286-080		CAP, U 0.01-25
C407	87-012-286-080		CAP, U 0.01-25
C408	87-012-286-080		CAP, U 0.01-25
C409	87-012-278-080		C-CAP,U 2200P-50 B
C410	87-012-278-080		C-CAP,U 2200P-50 B
C411	87-A12-091-080		CAP,E 10-50 SMG
C412	87-A12-091-080		CAP,E 10-50 SMG
C452	87-A12-069-080		CAP,E 22-25 SMG
C453	87-012-279-080		C-CAP,U 2700P-50 B
C454	87-012-279-080		C-CAP,U 2700P-50 B
C455	87-012-279-080		C-CAP,U 2700P-50 B
C456	87-012-286-080		CAP, U 0.01-25
C457	87-A12-361-080		CAP,M 5600P-100 J CP
C458	87-012-274-080		CHIP CAP,U 1000P-50B
C459	87-012-271-080		CAP, U 560P-50
C460	87-010-831-080		C-CAP,U,0.1-16F
C461	87-012-158-080		C-CAP,S 390P-50 CH
C462	87-012-158-080		C-CAP,S 390P-50 CH
C470	87-018-127-080		CAP, CER 470P-50V
C605	87-012-280-080		CAP, U 3300P-50
C606	87-012-280-080		CAP, U 3300P-50
C609	87-010-785-080		C-CAP,U0.015-25BK
C610	87-010-785-080		C-CAP,U0.015-25BK
C611	87-A12-084-080		CAP,E 0.22-50 SMG
C612	87-A12-084-080		CAP,E 0.22-50 SMG
C613	87-A12-084-080		CAP,E 0.22-50 SMG
C614	87-A12-084-080		CAP,E 0.22-50 SMG
C615	87-012-172-080		CAPACITOR CHIP U 10P CH
C616	87-016-459-080		CAP,E 470-10 SMG
C617	87-016-459-080		CAP,E 470-10 SMG
C618	87-A12-091-080		CAP,E 10-50 SMG
C620	87-010-263-080		CAP, ELECT 100-10V
C623	87-A12-084-080		CAP,E 0.22-50 SMG<U>
C623	87-A12-087-080		CAP,E 1-50 SMG<LH>
C624	87-A12-084-080		CAP,E 0.22-50 SMG<U>
C624	87-A12-087-080		CAP,E 1-50 SMG<LH>
C630	87-A10-260-080		C-CAP,U 0.1-16 K B
C631	87-012-281-080		C-CAP,U 3900P-50 B
C632	87-012-281-080		C-CAP,U 3900P-50 B
C633	87-A11-070-080		C-CAP,U 0.033-16 K B
C634	87-A11-070-080		C-CAP,U 0.033-16 K B
C661	87-012-336-080		C-CAP,U 330P-50J SL
C662	87-012-336-080		C-CAP,U 330P-50J SL
C671	87-010-831-080		C-CAP,U,0.1-16F<LH>
C672	87-010-831-080		C-CAP,U,0.1-16F<LH>
C673	87-010-182-080		C-CAP,S 2200P-50 B<LH>
C677	87-012-286-080		CAP, U 0.01-25
C771	87-A12-062-080		CAP,E 100-10 SMG
C772	87-012-286-080		CAP, U 0.01-25
C782	87-012-286-080		CAP, U 0.01-25
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-012-286-080		CAP, U 0.01-25
C786	87-012-286-080		CAP, U 0.01-25
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-A12-052-080		C-CAP,S 0.033-25 J B
C790	87-A12-052-080		C-CAP,S 0.033-25 J B
C791	87-010-831-080		C-CAP,U,0.1-16F
C792	87-012-286-080		CAP, U 0.01-25
C793	87-A12-090-080		CAP,E 4.7-50 SMG
C795	87-012-286-080		CAP, U 0.01-25
C796	87-012-286-080		CAP, U 0.01-25
C797	87-A12-091-080		CAP,E 10-50 SMG
C798	87-012-286-080		CAP, U 0.01-25
C799	87-A12-093-080		CAP,E 33-50 SMG
C800	87-010-829-080		CAP, U 0.047-16
C801	87-A12-089-080		CAP,E 3.3-50 SMG
C802	87-010-829-080		CAP, U 0.047-16
C803	87-010-787-080		CAP, U 0.022-25
C804	87-A12-062-080		CAP,E 100-10 SMG
C807	87-A12-086-080		CAP,E 0.47-50 SMG
C808	87-A12-087-080		CAP,E 1-50 SMG
C809	87-A12-087-080		CAP,E 1-50 SMG
C810	87-010-831-080		C-CAP,U,0.1-16F
C814	87-012-286-080		CAP, U 0.01-25
C815	87-A12-086-080		CAP,E 0.47-50 SMG
C816	87-A12-086-080		CAP,E 0.47-50 SMG
C821	87-A12-091-080		CAP,E 10-50 SMG
C823	87-A10-978-080		C-CAP,U 820P-25 J CH
C824	87-A12-090-080		CAP,E 4.7-50 SMG
C825	87-010-596-080		CAP, S 0.047-16
C842	87-012-286-080		CAP, U 0.01-25
C844	87-012-286-080		CAP, U 0.01-25
C850	87-A12-071-080		CAP,E 47-25 SMG
C851	87-012-286-080		CAP, U 0.01-25
C852	87-012-286-080		CAP, U 0.01-25
C853	87-012-286-080		CAP, U 0.01-25
C858	87-010-831-080		C-CAP,U,0.1-16F
C901	87-018-145-080		CAP,TC-U 6.8P-50 CH
C904	87-012-286-080		CAP, U 0.01-25
C905	87-012-286-080		CAP, U 0.01-25
C907	87-012-286-080		CAP, U 0.01-25
C908	87-A10-915-080		C-CAP,U 1000P-25 J CH
C909	87-012-286-080		CAP, U 0.01-25
C910	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C911	87-012-170-080		C-CAP,U 8P-50 CH
C912	87-012-195-080		C-CAP,U 100P-50CH
C913	87-012-286-080		CAP, U 0.01-25
C914	87-012-166-080		C-CAP,U 4P-50 CH
C915	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C916	87-012-180-080		C-CAP,U 22P-50 CH
C917	87-012-186-080		C-CAP,U 39P-50 CH
C918	87-A10-039-080		C-CAP,U 470P-50 J CH
C921	87-012-195-080		C-CAP,U 100P-50CH
C922	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C959	87-010-831-080		C-CAP,U,0.1-16F
C960	87-010-831-080		C-CAP,U,0.1-16F
C961	87-012-167-080		C-CAP,U 5P-50 CH
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C971	87-A12-067-080		CAP,E 330-16 SMG
C972	87-A12-090-080		CAP,E 4.7-50 SMG
C973	87-012-286-080		CAP, U 0.01-25
C974	87-012-286-080		CAP, U 0.01-25
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-A12-071-080		CAP,E 47-25 SMG
C982	87-010-831-080		C-CAP,U,0.1-16F
C983	87-012-286-080		CAP, U 0.01-25
C984	87-012-286-080		CAP, U 0.01-25
C987	87-012-286-080		CAP, U 0.01-25
C991	87-012-176-080		CAP 15P
C992	87-012-176-080		CAP 15P
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C997	87-010-831-080		C-CAP,U,0.1-16F
C998	87-A12-071-080		CAP,E 47-25 SMG
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER,CF SFE10.7MA5-A
CF832	87-008-261-010		FILTER,CF SFE10.7MA5-A
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P H BLK TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)<U>
D902	87-A40-128-080		C-VARI-CAP,HVU202A
D903	87-A40-128-080		C-VARI-CAP,HVU202A
FC602	88-906-251-110		FF-CABLE,6P 1.25 (RVS-FACE)
J201	87-A60-488-010		JACK,DIA6.3BLK ST W/SWKM16AT<U>
J201	87-A61-480-010		JACK,DIA6.3BLK ST W/SW MSC16A<LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH
L201	87-A50-610-010		COIL,1UH K(MDEC)
L202	87-A50-610-010		COIL,1UH K(MDEC)
L451	87-007-342-010		COIL,OSC 85K HZ BIAS
L801	87-A50-608-010		COIL,FM DET-N(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH K CECS
L832	87-005-847-080		COIL,2.2UH K CECS
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G
L904	87-005-847-080		COIL,2.2UH K CECS
L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)
L906	88-ZA1-603-010		COIL,FM-OSC-U 2G
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)
R129	87-A00-262-080		RES,M/F 0.15-2W J
R130	87-A00-262-080		RES,M/F 0.15-2W J
R131	87-A00-262-080		RES,M/F 0.15-2W J
R132	87-A00-262-080		RES,M/F 0.15-2W J
R243	87-A01-001-050		RES,220-1/2W J BLT2J<U>
R243	87-A00-440-050		RES,220-1/2W J RP<LH>
R244	87-A01-001-050		RES,220-1/2W J BLT2J<U>
R244	87-A00-440-050		RES,220-1/2W J RP<LH>
R245	87-A00-999-050		RES,180-1/2W J BLT2J<U>
R245	87-A00-440-050		RES,220-1/2W J RP<LH>
R246	87-A00-999-050		RES,180-1/2W J BLT2J<U>
R246	87-A00-440-050		RES,220-1/2W J RP<LH>
R790	87-012-286-080		CAP, U 0.01-25
R991	87-012-195-080		C-CAP,U 100P-50CH
R993	87-012-195-080		C-CAP,U 100P-50CH
R995	87-012-195-080		C-CAP,U 100P-50CH
SFR451	87-A90-557-080		SFR,33K H HOKU
SFR452	87-A90-557-080		SFR,33K H HOKU
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
W99	8B-NFJ-620-010		F-CABLE,9P 2.5 280MM<U>
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST

FRONT C.B

C39	87-A10-039-080		C-CAP,U 470P-50 J CH
C40	87-012-195-080		C-CAP,U 100P-50CH
C41	87-012-195-080		C-CAP,U 100P-50CH
C42	87-012-195-080		C-CAP,U 100P-50CH
C43	87-012-195-080		C-CAP,U 100P-50CH
C44	87-012-195-080		C-CAP,U 100P-50CH
C45	87-012-195-080		C-CAP,U 100P-50CH
C46	87-012-195-080		C-CAP,U 100P-50CH
C47	87-012-195-080		C-CAP,U 100P-50CH
C48	87-012-199-080		CAP 220P
C49	87-012-145-080		CAP, CHIP S 270P CH
C50	87-012-145-080		CAP, CHIP S 270P CH
C141	87-012-278-080		C-CAP,U 2200P-50 B
C142	87-010-785-080		C-CAP,U0.015-25BK
C153	87-016-083-080		C-CAP,S 0.15-16 RK<700LH>
C153	87-A11-058-080		C-CAP,U 0.22-10 KB<700U,705LH>
C154	87-A10-189-040		CAP,E 220-10
C155	87-012-176-080		CAP 15P
C156	87-012-198-080		CAP 180P
C158	87-A10-039-080		C-CAP,U 470P-50 J CH
C161	87-012-274-080		CHIP CAP,U 1000P-50B
C162	87-012-274-080		CHIP CAP,U 1000P-50B
C165	87-012-157-080		C-CAP,S 330P-50 CH
C166	87-010-552-040		CAP,E 22-16 M 5L SRE
C171	87-012-369-080		C-CAP,S 0.047-50F
C172	87-A12-094-080		CAP,E 47-50 SMG
C173	87-010-421-040		CAP,E 4.7-50 5L
C174	87-010-421-040		CAP,E 4.7-50 5L
C180	87-010-759-080		C-CAP,U, 0.1-25F
C185	87-010-759-080		C-CAP,U, 0.1-25F
C186	87-012-274-080		CHIP CAP,U 1000P-50B
C188	87-012-369-080		C-CAP,S 0.047-50F
C191	87-012-286-080		CAP, U 0.01-25
C192	87-010-759-080		C-CAP,U, 0.1-25F
C251	87-A12-094-080		CAP,E 47-50 SMG
C315	87-010-759-080		C-CAP,U, 0.1-25F
C451	87-010-759-080		C-CAP,U, 0.1-25F
C452	87-010-759-080		C-CAP,U, 0.1-25F
C453	87-010-759-080		C-CAP,U, 0.1-25F
C454	87-010-759-080		C-CAP,U, 0.1-25F
C455	87-010-759-080		C-CAP,U, 0.1-25F
C502	87-012-282-080		CAP, U 4700P-50<LH>
C503	87-010-112-040		CAP,E 100-16<LH>
C505	87-010-546-040		CAP,E 0.33-50<LH>
C506	87-012-191-080		CHIP CAP 68 PF<LH>
C507	87-010-545-040		CAP,E 0.22-50 SME<LH>
C508	87-010-544-040		CAP,E 0.1-50 SME<LH>
C510	87-012-195-080		C-CAP,U 100P-50CH<LH>
C511	87-A12-065-080		CAP,E 33-16 SMG<LH>
C512	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C514	87-010-759-080		C-CAP,U, 0.1-25F<LH>
C515	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C517	87-012-274-080		CHIP CAP,U 1000P-50B<LH>
C518	87-010-759-080		C-CAP,U, 0.1-25F<LH>
C520	87-012-273-080		C-CAP,U 820P-50 B<LH>
CN101	87-099-720-010		CONN,30P BLK TYK-B(P)
CN103	87-099-196-010		CONN,8P V BLK 6216
CN201	87-099-017-010		CONN, 15P V BLK 6216<LH>
CN202	87-099-013-010		CONN,11P V BLK 6216<U>
CN301	87-099-209-010		CONN,4P H BLK 6216
CN303	87-099-209-010		CONN,4P H BLK 6216
CN911	87-099-212-010		CONN,5P V BLK 6216
CNA901	8B-NF7-620-010		CONN ASSY,3P V 120MM
FB501	87-008-372-080		FILTER, EMI BL01 IN1<LH>
FC103	88-908-301-110		FF-CABLE,8P 1.25
FC201	88-915-101-110		FF-CABLE,15P 1.25 100MM<LH>
FC202	88-911-101-110		FF-CABLE,11P 1.25<U>
FC301	88-904-091-110		FF-CABLE,4P 1.25 90MM
FC303	88-904-091-110		FF-CABLE,4P 1.25 90MM
FC911	88-905-151-110		FF-CABLE, 5P 1.25 150MM
FL401	8B-NF7-621-010		FL,BJ815GNK
J502	87-A61-243-010		JACK,6.3 BLK MONO W/SW V MSC<LH>
L151	87-A50-656-010		COIL,CLK 5.76MHZ (TOKO)7KLY
LED401	87-A40-589-040		LED,SLR-56VCT31 RED
S162	87-A91-645-010		SW,RTRY EC12E24304NON-CLICK
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S335	87-A90-095-080		SW,TACT EVQ11G04M
VR501	87-NB7-602-010		VR,RTRY 10KAX1 1 V<LH>

PT C.B

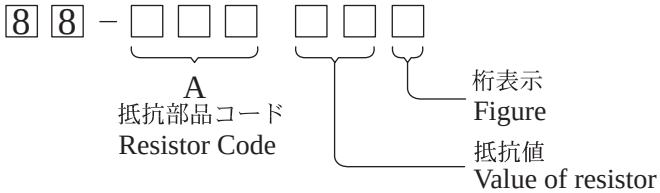
CN1	87-A61-110-010		CONN,9P V TID-A<LH>
⚠ PT1	8B-NFJ-602-010		PT,BNF-18 LH<LH>
⚠ PT1	8B-NFJ-601-010		PT,BNF-18 U<U>
⚠ PT2	8B-MA6-673-010		PT,SUB BMA H (VRK)<LH>
⚠ PT81	8B-MA6-671-010		PT,SUB BMA U (VRK)<U>
⚠ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<LH>
⚠ RY81	87-A91-418-010		RELAY,AC12V G5PA-1-M<U>
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<LH>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<LH>
⚠ T81	87-A60-317-010		TERMINAL, 1P MSC<U>
⚠ T82	87-A60-317-010		TERMINAL, 1P MSC<U>
WH81	87-A90-510-010		HLDR,WIRE 2.5-9P<U>
M-OP-PANEL C.B			
C391	87-012-274-080		CHIP CAP,U 1000P-50B
C392	87-012-199-080		CAP 220P
CN304	87-099-209-010		CONN,4P H BLK 6216
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M
S371	87-A91-991-010		SW,RTRY REO12303PVB8H
S-OP-PANEL C.B			
CN302	87-A60-083-010		CONN,04P H 9604S-04F
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S306	87-A90-095-080		SW,TACT EVQ11G04M<LH>
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
MOTOR C.B			
CN912	87-099-210-010		CONN,5P H BLK 6216
S911	87-036-109-010		SW,MICRO SPPB61
S912	87-036-109-010		SW,MICRO SPPB61

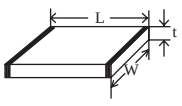
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
BOX SW C.B			
S901	87-036-252-010		SW,MICRO SPPB51
S902	87-036-252-010		SW,MICRO SPPB51
DECK C.B <U>			
CN1	87-099-753-010		CONN,11P H 9604
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL1	82-ZM3-627-010		SOL ASSY,27
SOL2	82-ZM3-627-010		SOL ASSY,27
SW1	87-A90-673-010		SW,MICRO ESE11SH1C
SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
SW5	87-A90-673-010		SW,MICRO ESE11SH1C
DECK C.B <LH>			
CON1	87-099-756-010		CONN,15P 9604S F
M1	87-045-347-010		MOT,SHU2L 70
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL1	82-ZM3-627-010		SOL ASSY 27 SO
SOL2	82-ZM3-627-010		SOL ASSY 27 SO
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
HEAD-1<LH>			
CON301	87-NF6-615-010		CONN ASSY,3P PB
	85-ZM3-602-010		PWB,FLEX A
HEAD-2<LH>			
CON351	87-NF6-616-010		CONN ASSY,8P RPB
	85-ZM3-602-010		PWB,FLEX A

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

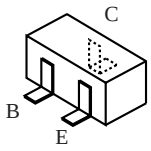
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

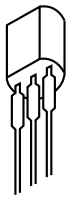
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

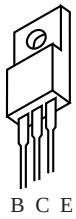


2SA1235F
2SC2714O
2SC3052F
KRA102S
KRA107S
KRC104S
KRC107S
CMBT5401
CMBT5551
RT1P141C

2SA1980G
2SA1981Y
2SA1979O/Y
2SC5343G
2SC5342Y
CSD655E



CC5551
CDA1585BC
CSC4115BC
KTA1266GR



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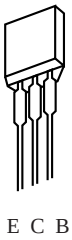

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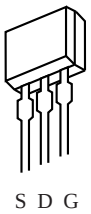
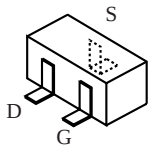
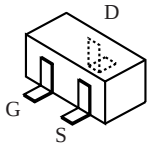


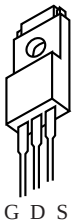
2SJ460
2SK2541



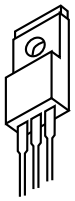
2SK360E



2SK2158



2SK2937



FN1016
FP1016

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

J831 ANTENNA

AM LOOP

IFM 75Ω

TO CD MECHANISM BZG-5 ZD3N1M (FC602)

J602 VIDEO/AUX

J203 SPEAKERS SPEAKER IMP:6Ω

TO PT C.B CN001 (CNA001)<LH>
TO PT C.B WH081 (W099)<U>

LH:TO HEAD-1 C.B CON301
U:TO DECK-1 CON301

LH:TO HEAD-2 C.B CON351
U:TO DECK-2 CON351

TO FRONT C.B CN101

J201 PHONES

C PT C.B

<U ONLY>

WH081 <WHT>

PT001

T81 T82

RY081

TF

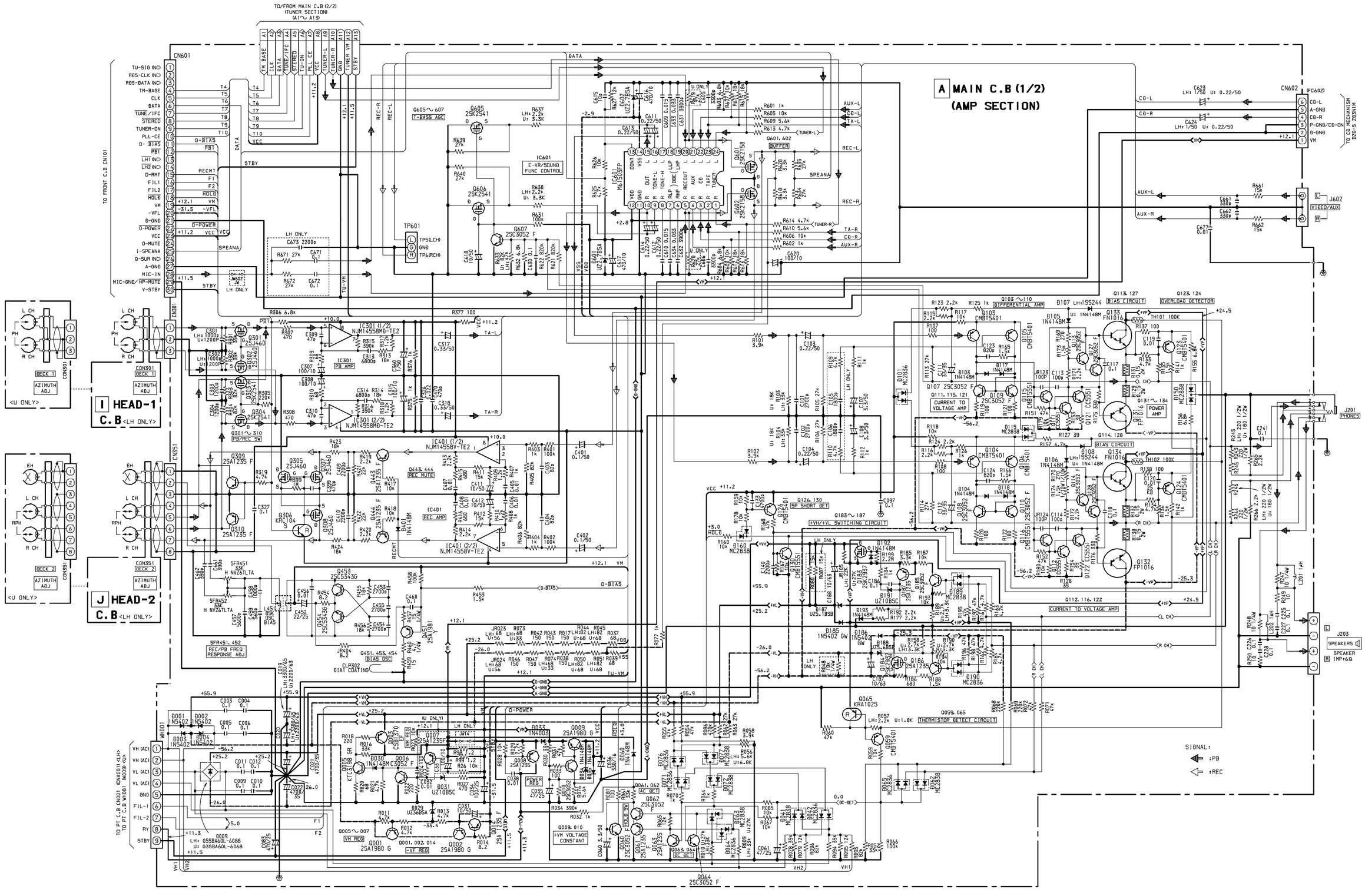
PT081

<BLK> <WHT>

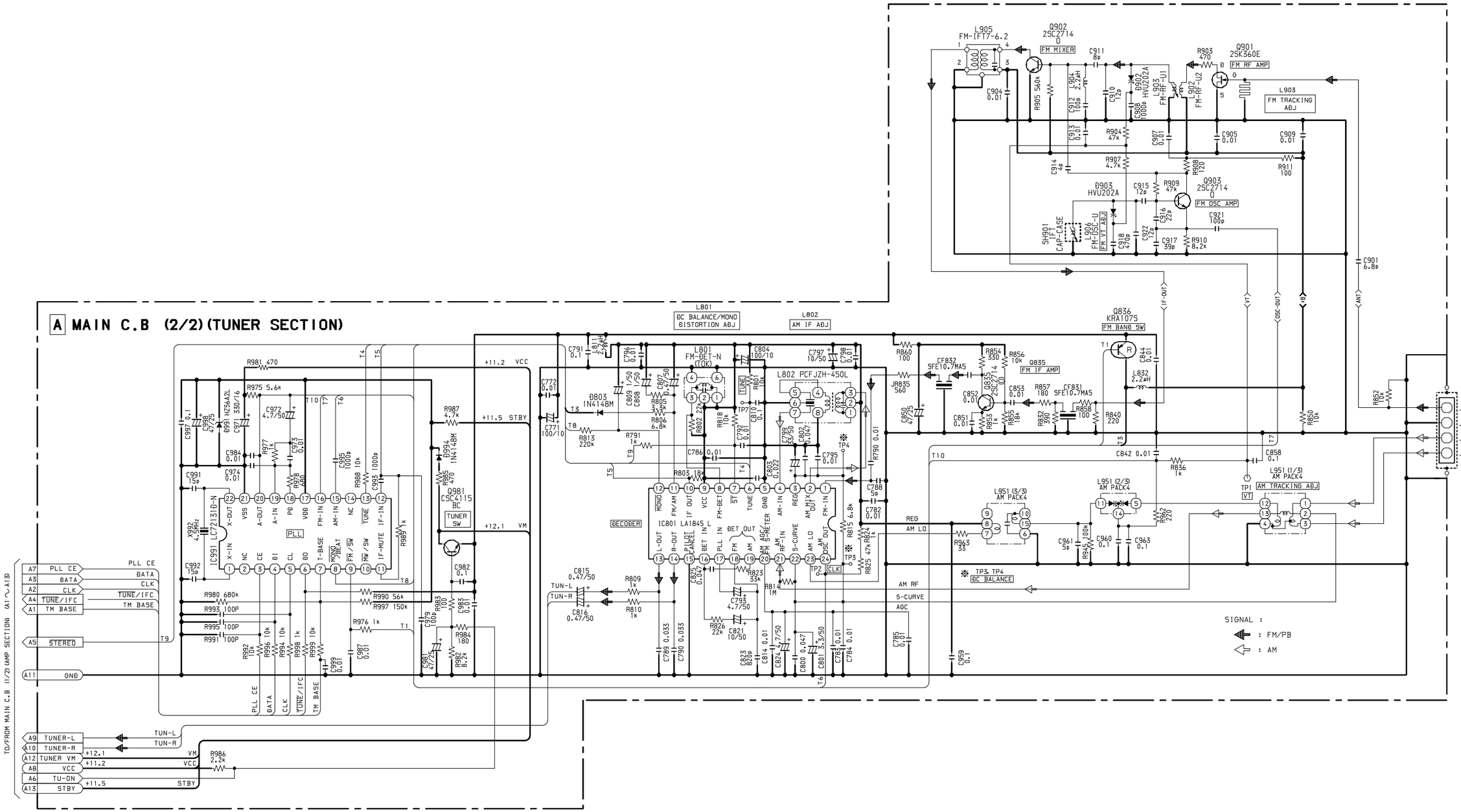
AC 120V 60 HZ

TO MAIN C.B U:W099

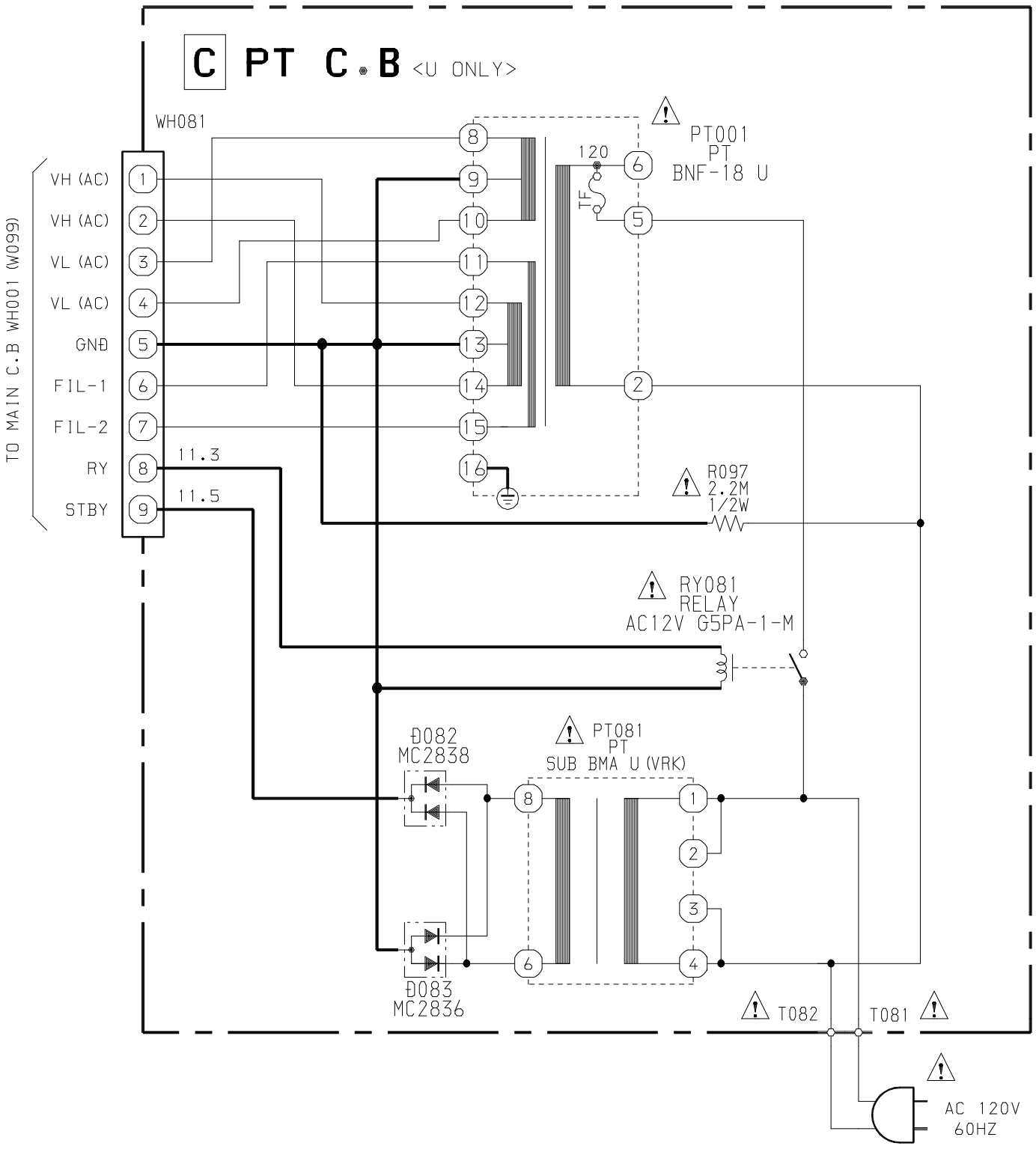
SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP SECTION)

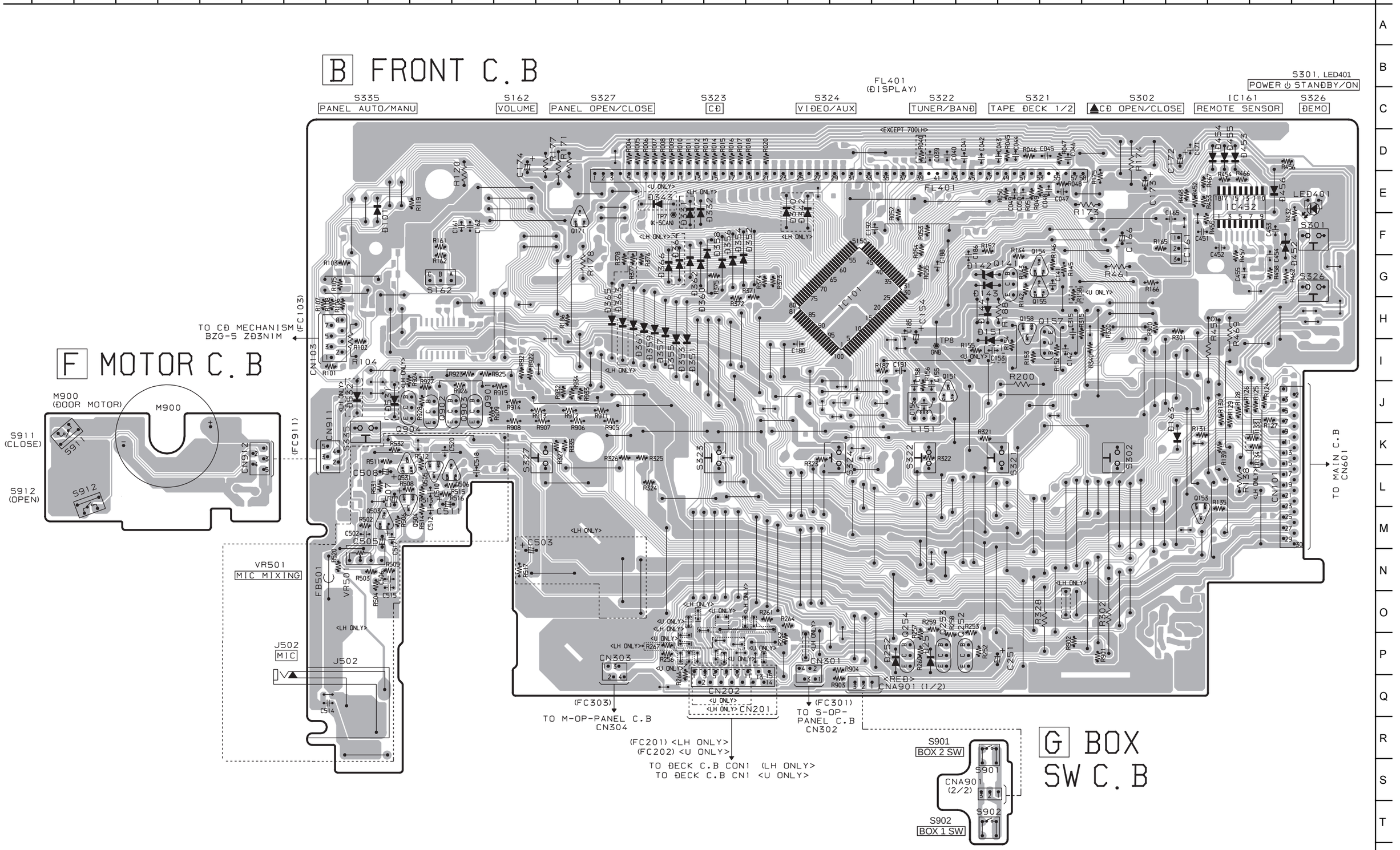

A MAIN C.B (1/2)
(AMP SECTION)
I HEAD-1
C.B <LH ONLY>
J HEAD-2
C.B <LH ONLY>
TO/FROM MAIN C.B (2/2)
(TUNER SECTION)
CN601
CN602
CN501
CON501
CON351
CN451
CN401
TO FRONT C.B CN101
TO PT. C.B CN001 (CN4001) <LH>
TO PT. C.B WH081 (WH009) <LH>
TO CD MECHANISM
DCP-S 7GBN14
IC301 (1/2)
NJM14558MD-TE2
IC301 (2/2)
NJM14558MD-TE2
IC401 (1/2)
NJM14558V-TE2
IC401 (2/2)
NJM14558V-TE2
IC601
E-VR/SOUND
FUNC CONTROL
M61503FP
TP601
TP5&CH9
TP6&RCH9
Q601, 602
BUFFER
Q605
2SK2541
T-BASS AGC
Q606
2SK2541
Q607
2SC3052 F
Q103 ~ 110
DIFFERENTIAL AMP
Q113, 127
BIAS CIRCUIT
Q123, 124
OVERLOAD DETECTOR
Q107
2SC3052 F
Q111, 115, 121
CURRENT TO
VOLTAGE AMP
Q112, 116, 122
CURRENT TO VOLTAGE AMP
Q126, 130
SP SHORT DET
Q183 ~ 187
+VH/+VL SWITCHING CIRCUIT
Q114, 128
BIAS CIRCUIT
Q131 ~ 134
POWER
AMP
Q059, 065
THERMISTOR DETECT CIRCUIT
Q065
KRA102S
Q064
2SC3052 F
Q062
2SC3052 F
Q009, 010
+VH VOLTAGE
CONSTANT
Q001
2SA1980 G
Q002
2SA1980 G
Q009
2SA1980 G
Q451, 453, 454
BIAS OSC
Q453
2SC5343G
Q443, 444
REC MUTE
IC401
REC AMP
Q309
2SA1235 F
Q310
2SA1235 F
Q306
KRC104
Q305
2SJ460
Q307
2SJ460
Q301
2SJ460
Q302
2SJ460
Q303
2SK2541
Q304
2SK2541
Q501 ~ 310
PB/REC SW
Q005 ~ 007
VM REG
Q001, 002, 014
-VF REG
Q009, 010
+VM VOLTAGE
CONSTANT
Q062
2SC3052 F
Q064
2SC3052 F
Q065
KRA102S
Q059, 065
THERMISTOR DETECT CIRCUIT
Q126, 130
SP SHORT DET
Q183 ~ 187
+VH/+VL SWITCHING CIRCUIT
Q103 ~ 110
DIFFERENTIAL AMP
Q113, 127
BIAS CIRCUIT
Q123, 124
OVERLOAD DETECTOR
Q114, 128
BIAS CIRCUIT
Q131 ~ 134
POWER
AMP
Q107
2SC3052 F
Q111, 115, 121
CURRENT TO
VOLTAGE AMP
Q112, 116, 122
CURRENT TO VOLTAGE AMP
SFR451, 452
REC/PB FREQ
RESPONSE ADJ
SFR451
33K
H NVZ61TLTA
SFR452
33K
H NVZ61TLTA
CLP302
DIAT COATING
JR023
JR024
JR025
JR026
JR027
JR028
JR029
JR030
JR031
JR032
JR033
JR034
JR035
JR036
JR037
JR038
JR039
JR040
JR041
JR042
JR043
JR044
JR045
JR046
JR047
JR048
JR049
JR050
JR051
JR052
JR053
JR054
JR055
JR056
JR057
JR058
JR059
JR060
JR061
JR062

SCHEMATIC DIAGRAM – 2 (MAIN 2 / 2 : TUNER SECTION)

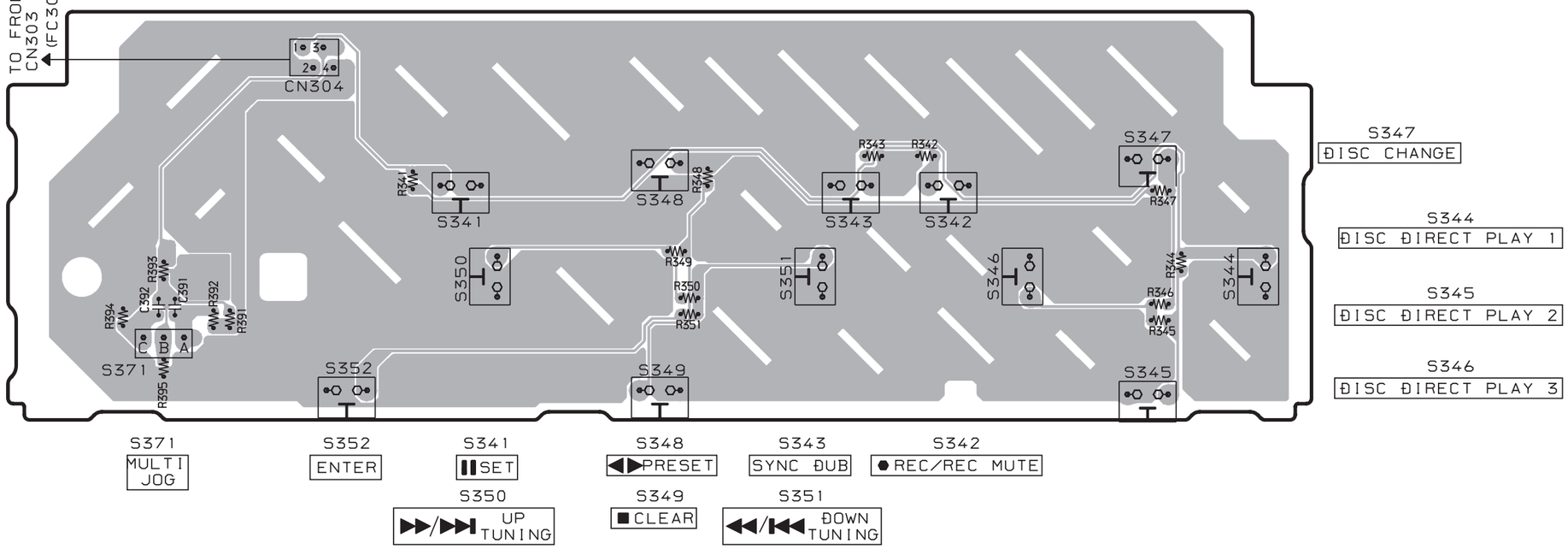


SCHEMATIC DIAGRAM – 3 (PT) <U>




B FRONT C.B
S335 PANEL AUTO/MANU
S162 VOLUME
S327 PANEL OPEN/CLOSE
S323 CĐ
S324 VIĐEO/AUX
FL401 (ĐISPLAY)
S322 TUNER/BANĐ
S321 TAPE ĐECK 1/2
S302 ▲CĐ OPEN/CLOSE
IC161 REMOTE SENSOR
S326 ĐEMO
S301, LED401 POWER ⏻ STANĐBY/ON
<EXCEPT 700LH>
IC101
IC452
LED401
S301
S326
TO CĐ MECHANISM BZG-5 ZĐ3N1M (FC103)
CN103
F MOTOR C.B
M900 (ĐOOR MOTOR)
S911 (CLOSE)
S912 (OPEN)
(FC911)
CN911
CN912
VR501 MIC MIXING
J502 MIC
FB501
VR501
CN303
CN202
CN201
CN301
(FC303) TO M-OP-PANEL C.B CN304
(FC201) <LH ONLY> (FC202) <U ONLY> TO ĐECK C.B CON1 (LH ONLY> TO ĐECK C.B CN1 <U ONLY>
(FC301) TO S-OP-PANEL C.B CN302
<RED> CNA901 (1/2)
TO MAIN C.B CN601
G BOX SW C.B
S901 BOX 2 SW
S902 BOX 1 SW
CNA901 (2/2)

M-OP-PANEL C.B



S347
DISC CHANGE

S344
DISC DIRECT PLAY 1

S345
DISC DIRECT PLAY 2

S346
DISC DIRECT PLAY 3

S371
MULTI JOG

S352
ENTER

S341
SET

S348
PRESET

S343
SYNC DUB

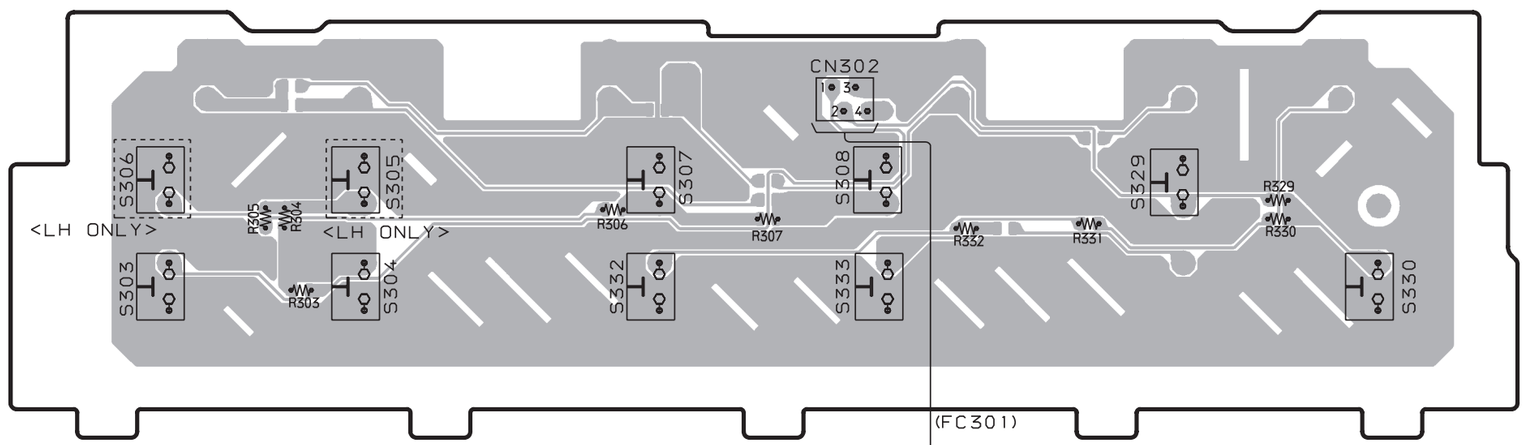
S342
REC/REC MUTE

S350
UP TUNING

S349
CLEAR

S351
DOWN TUNING

S-OP-PANEL C.B



S303
CD EDIT/CHECK

S304
CD BLANK SKIP

S307
CLOCK

S308
TIMER

S329
ECO

S330
GRAPHIC EQUALIZER

S306
KARAOKE

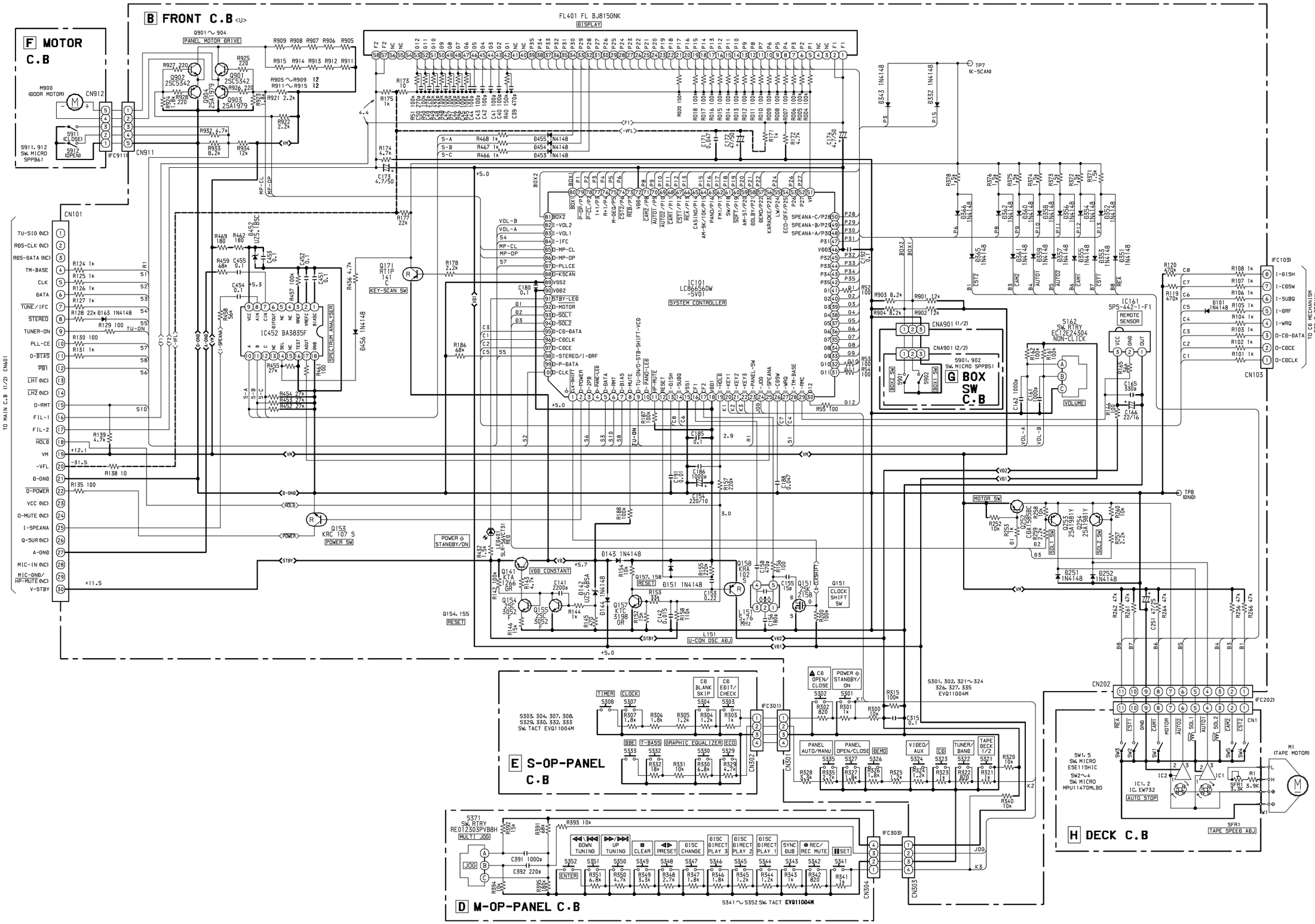
S305
REV MODE

S332
T-BASS

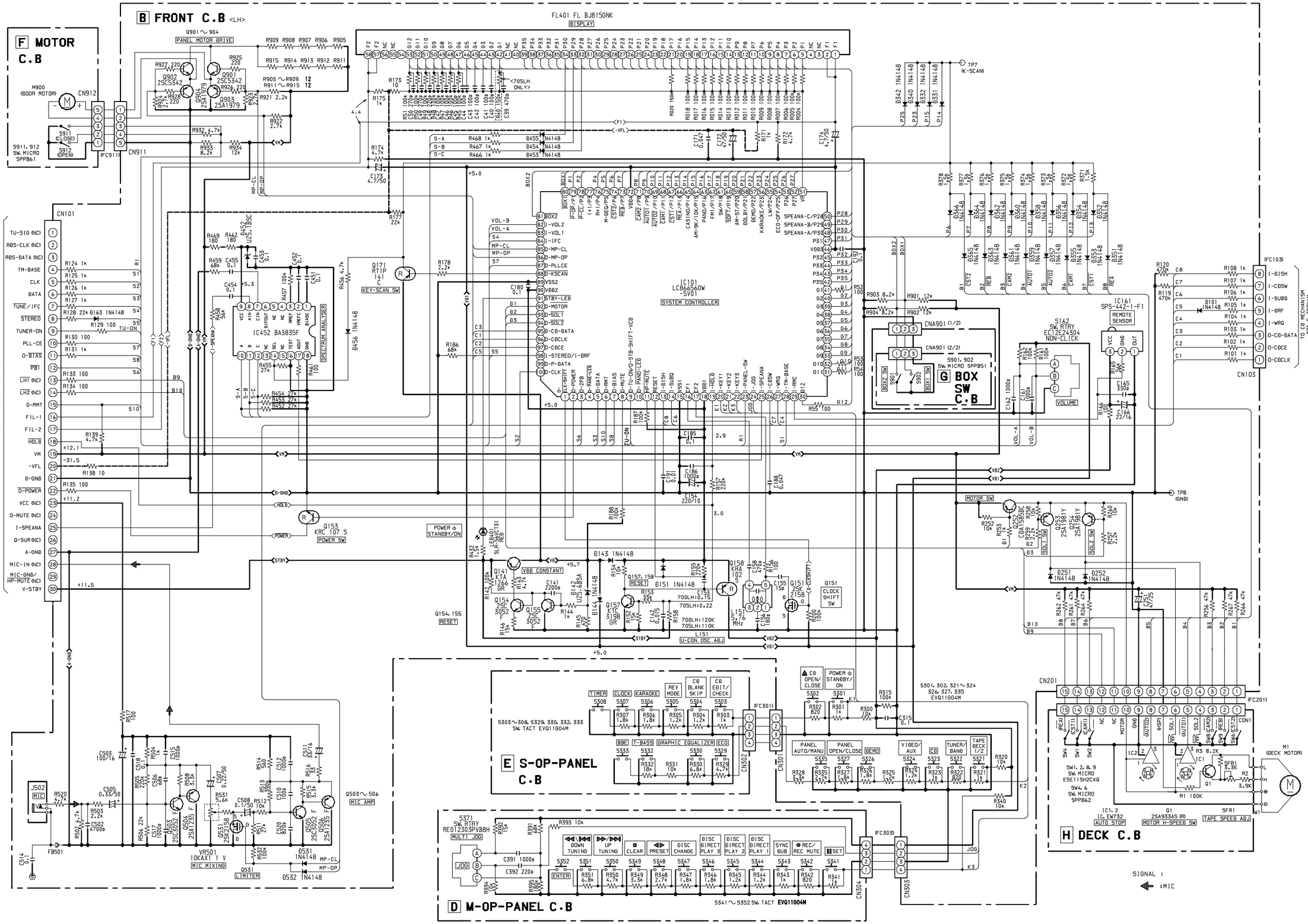
S333
BBE

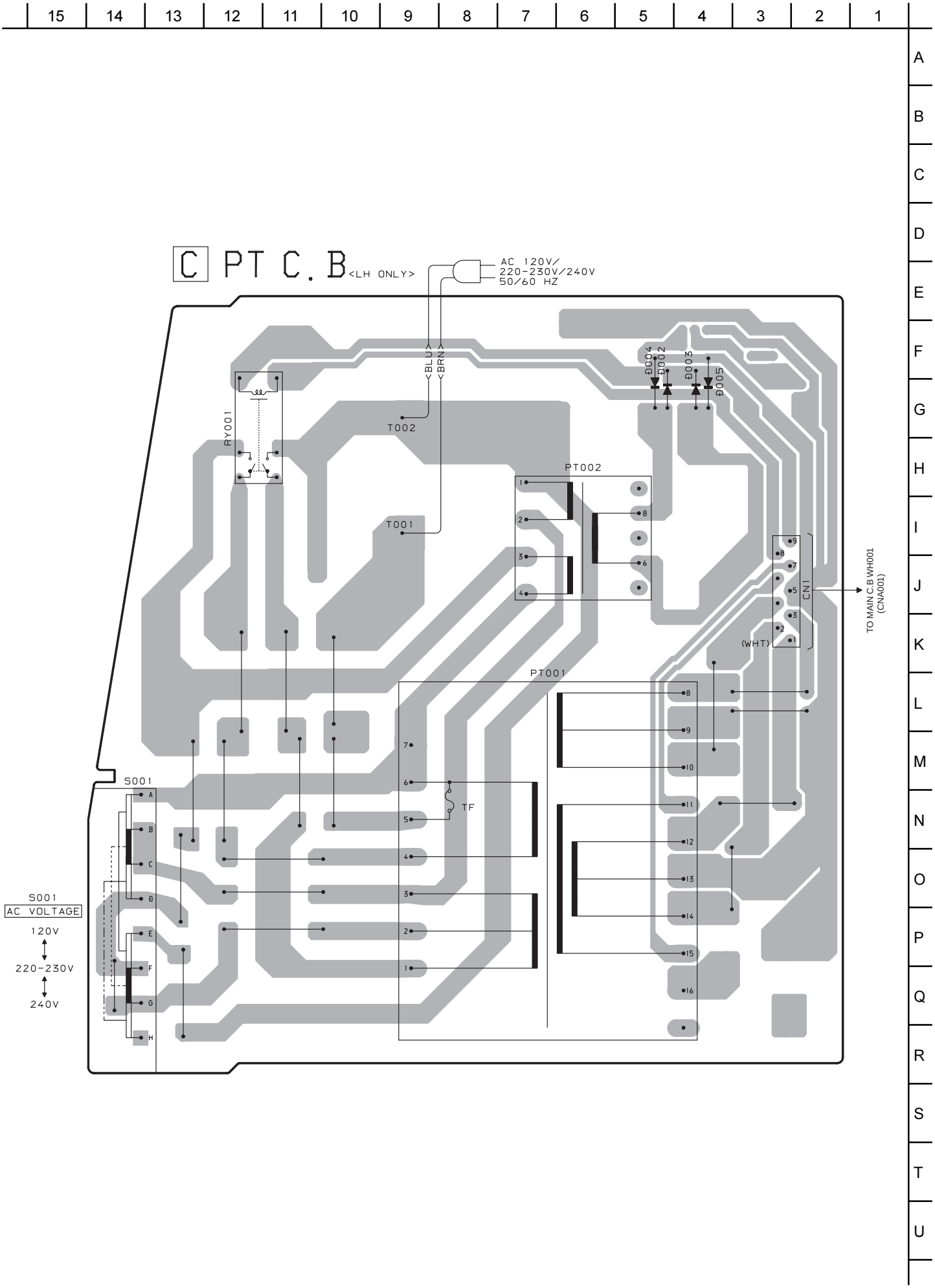
TO FRONT C.B
CN301

SCHEMATIC DIAGRAM – 4 (U : FRONT / M-OP-PANEL / S-OP-PANEL / MOTOR / BOX SW / DECK)

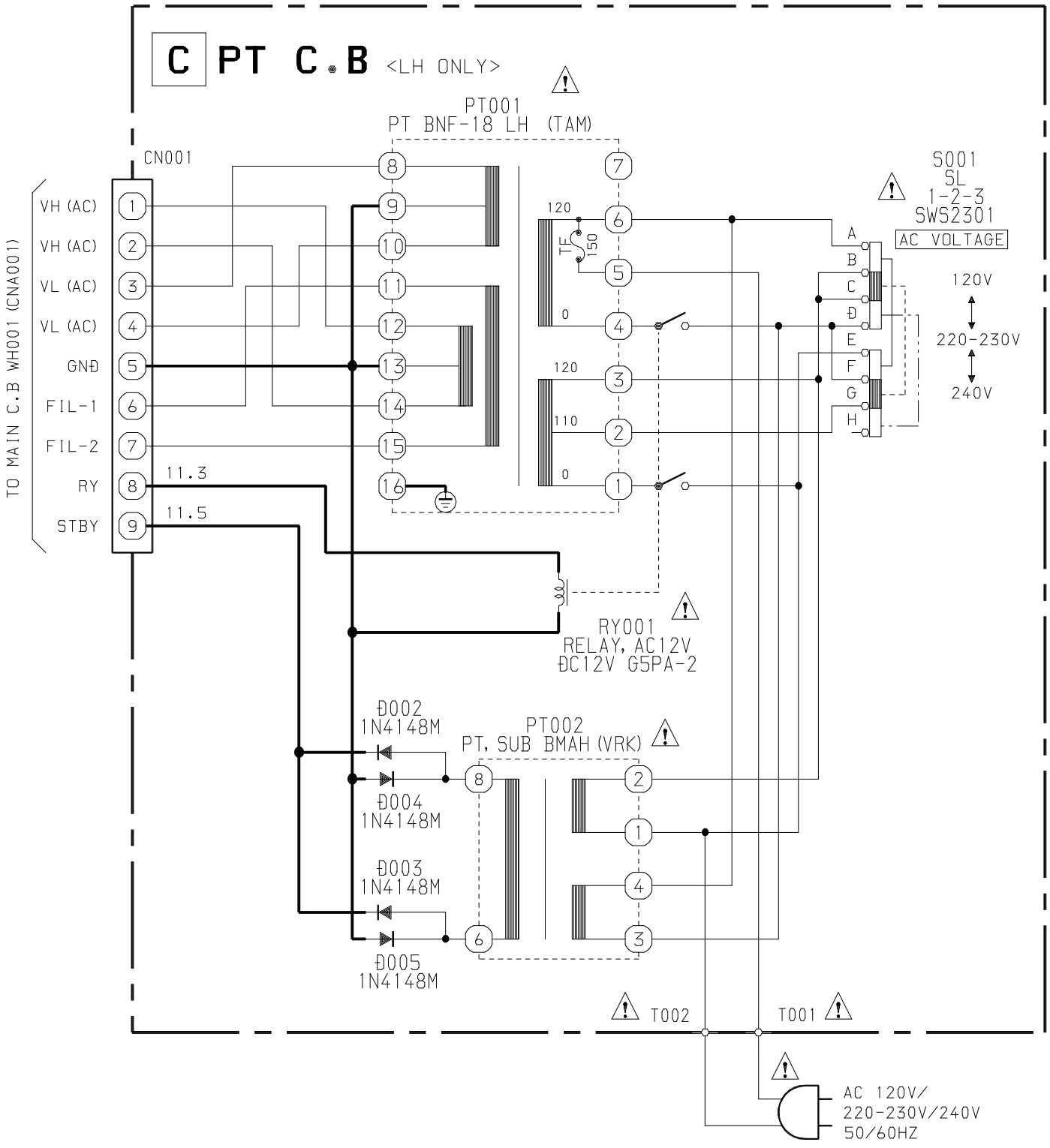


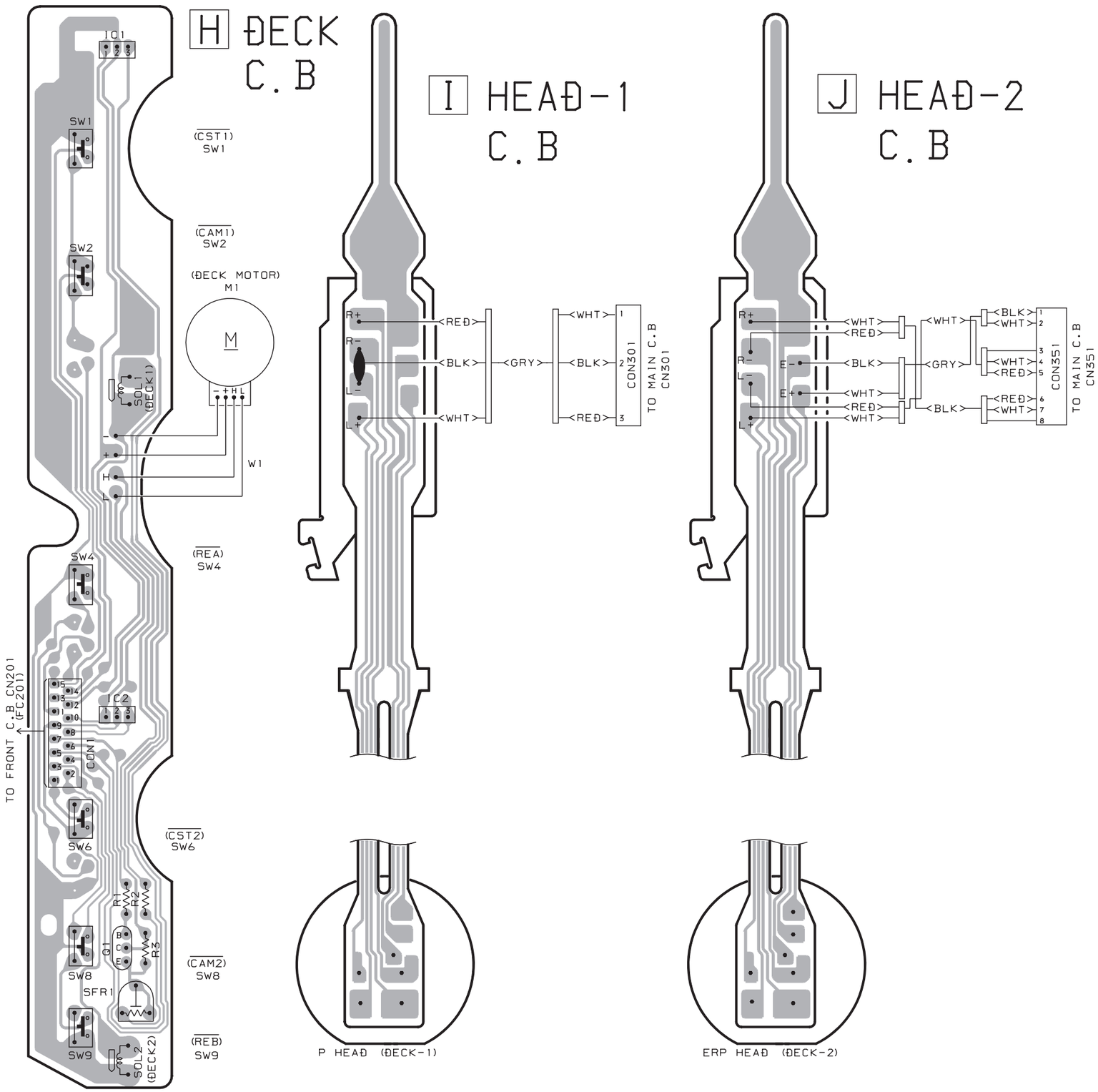
SCHEMATIC DIAGRAM – 5 (LH : FRONT / M-OP-PANEL / S-OP-PANEL / MOTOR / BOX SW / DECK)




C PT C.B <LH ONLY>
AC 120V/
220-230V/240V
50/60 HZ
<BLU>
<BRN>
T002
T001
RY001
D004
D002
D003
D005
PT002
PT001
CN1
(WHT)
TO MAIN C.B WH001
(CNA001)
S001
TF
S001
AC VOLTAGE
120V
220-230V
240V

SCHEMATIC DIAGRAM – 6 (PT) <LH>

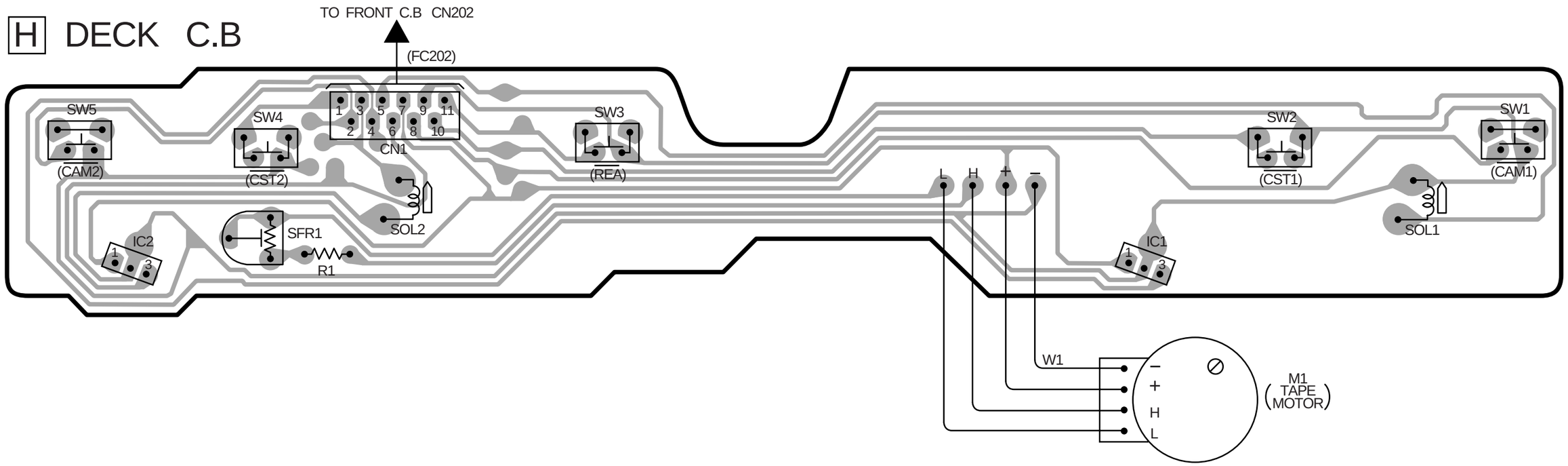


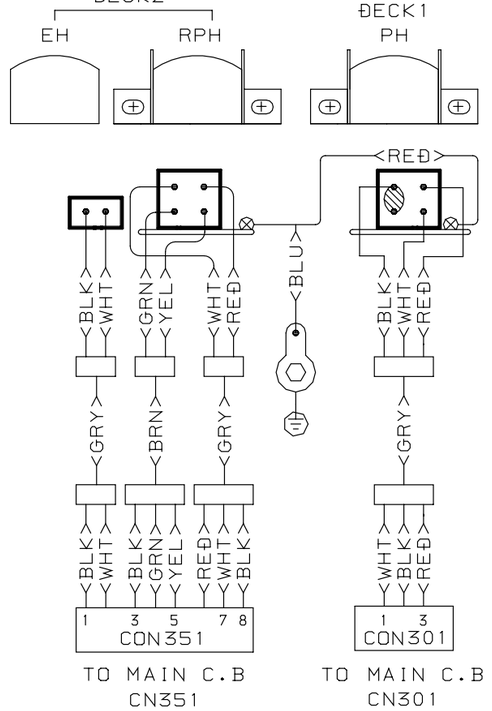

H DECK C.B
I HEAD-1 C.B
J HEAD-2 C.B
IC1
SW1
(CST1) SW1
SW2
(CAM1) SW2
(DECK MOTOR) M1
M
SOL1 (DECK1)
W1
SW4
(REA) SW4
TO FRONT C.B CN201 (FC201)
IC2
CON1
SW6
(CST2) SW6
R1
R2
R3
Q1
B
C
E
SW8
(CAM2) SW8
SFR1
SW9
(REB) SW9
SOL2 (DECK2)
R+
R-
F-
F+
L-
L+
RED
BLK
WHT
GRY
CON301
TO MAIN C.B CN301
CON351
TO MAIN C.B CN351
P HEAD (DECK-1)
ERP HEAD (DECK-2)

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

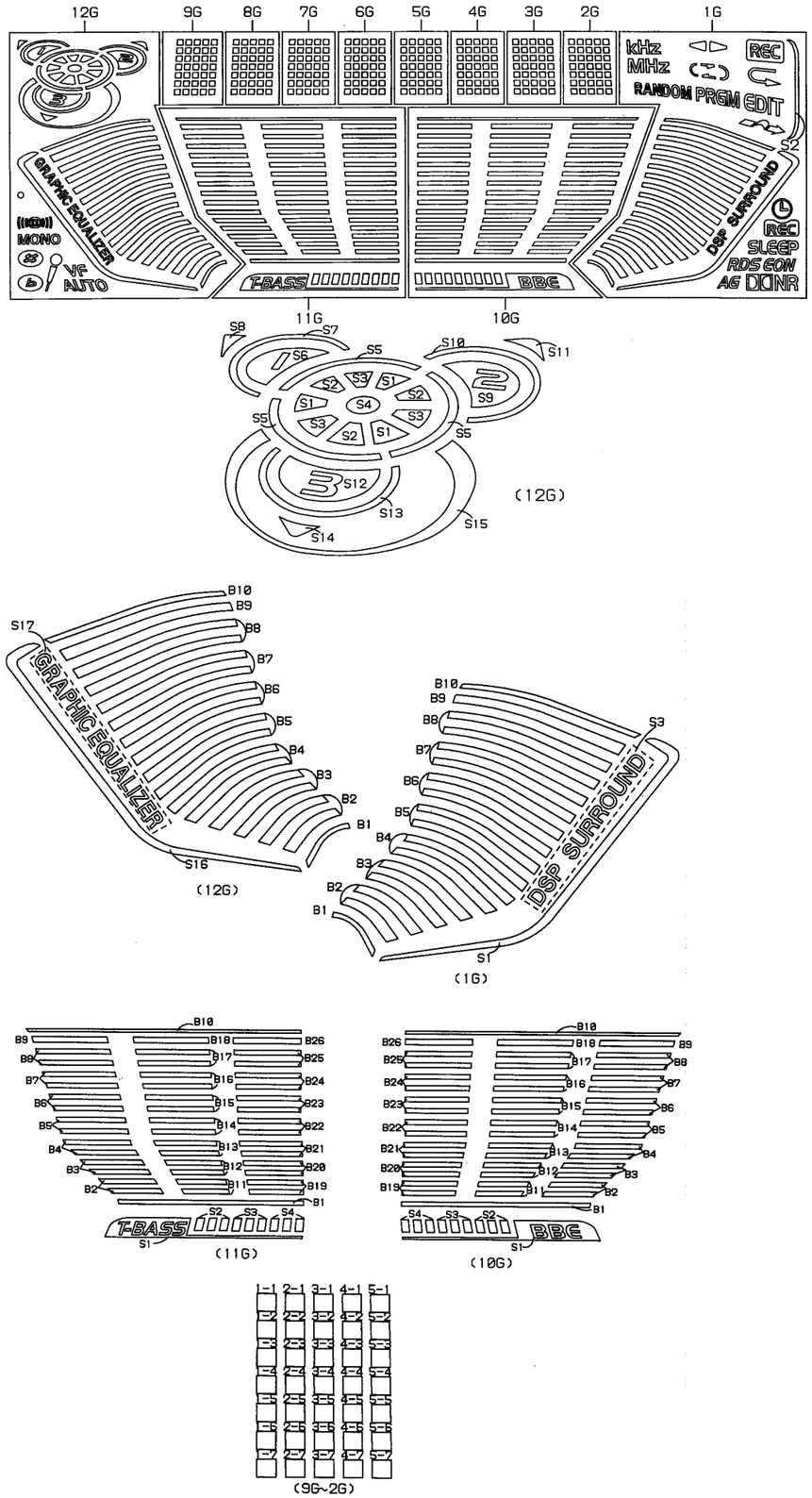
H DECK C.B





FL (BJ815GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

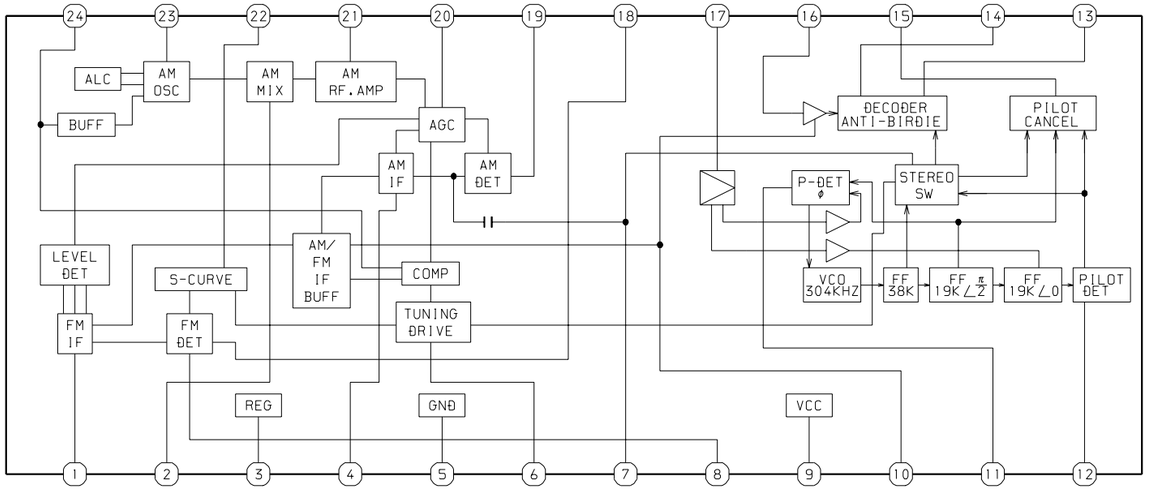


ANODE CONNECTION

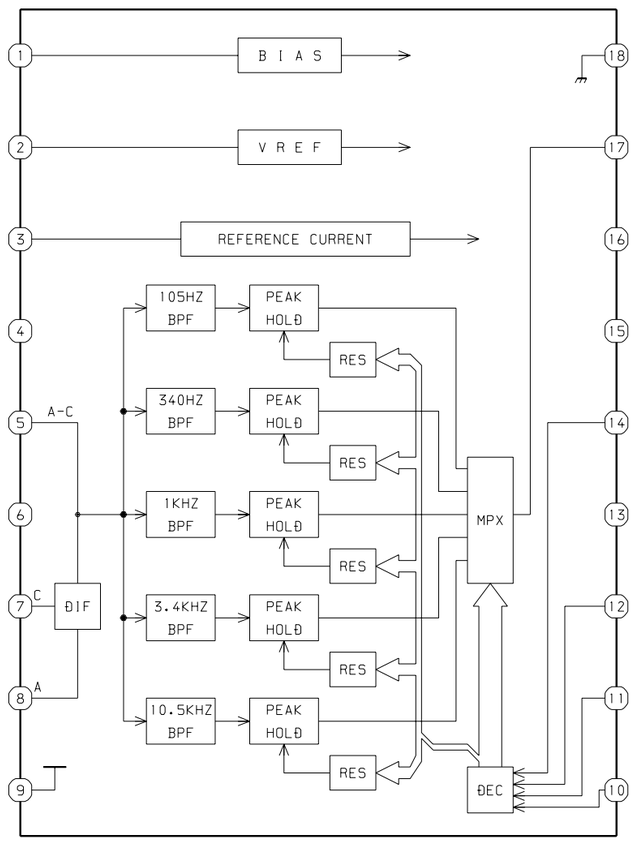
	12G	11G	10G	9G~2G	1G
P1	S1	S1	S1	1-1	S1
P2	S2	S2	S2	2-1	S2
P3	S3	S3	S3	3-1	S3
P4	S4	S4	S4	4-1	
P5	S5	B1	B1	5-1	EDIT
P6	S6	–	–	1-2	
P7	S7	–	–	2-2	REC (上)
P8	S8	B2	B2	3-2	B1
P9	S9	B3	B3	4-2	B2
P10	S10	B4	B4	5-2	B3
P11	S11	B5	B5	1-3	B4
P12	S12	B6	B6	2-3	B5
P13	S13	B7	B7	3-3	B6
P14	S14	B8	B8	4-3	B7
P15	S15	B9	B9	5-3	B8
P16	○	B10	B10	1-4	B9
P17	S16	B11	B11	2-4	B10
P18	S17	B12	B12	3-4	PRGM
P19	B1	B13	B13	4-4	
P20	B2	B14	B14	5-4	
P21	B3	B15	B15	1-5	
P22	B4	B16	B16	2-5	
P23	B5	B17	B17	3-5	
P24	B6	B18	B18	4-5	RANDOM
P25	B7	B19	B19	5-5	MHz
P26	B8	B20	B20	1-6	kHz
P27	B9	B21	B21	2-6	–
P28	B10	B22	B22	3-6	–
P29		B23	B23	4-6	
P30	MONO	B24	B24	5-6	REC (下)
P31	VF	B25	B25	1-7	SLEEP
P32	AUTO	B26	B26	2-7	RDS
P33		–	–	3-7	EON
P34		–	–	4-7	AG
P35		–	–	5-7	DNR

IC BLOCK DIAGRAM

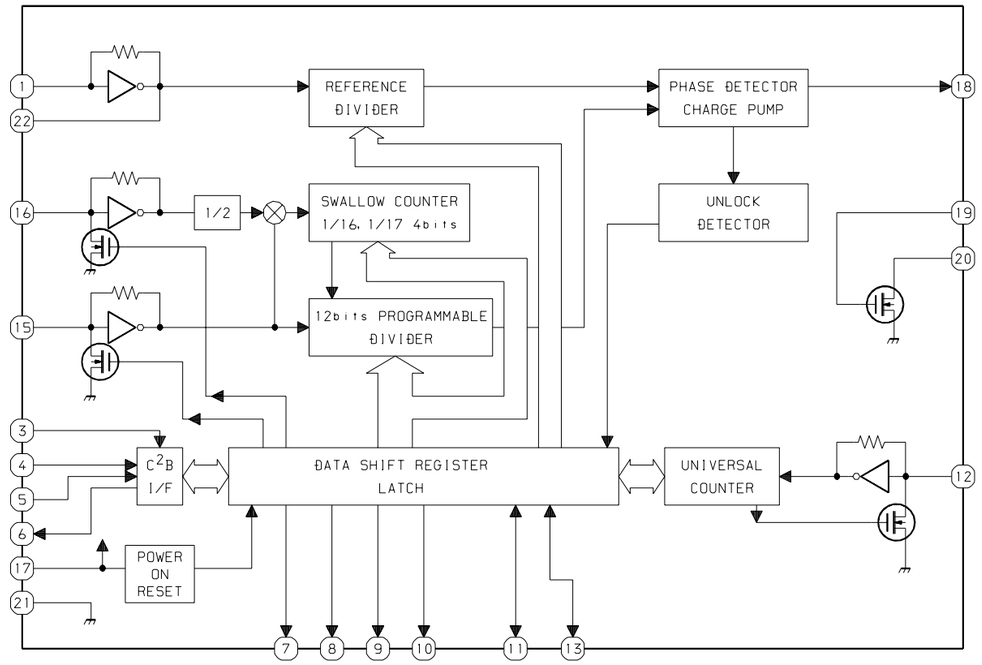
IC, LA1845L



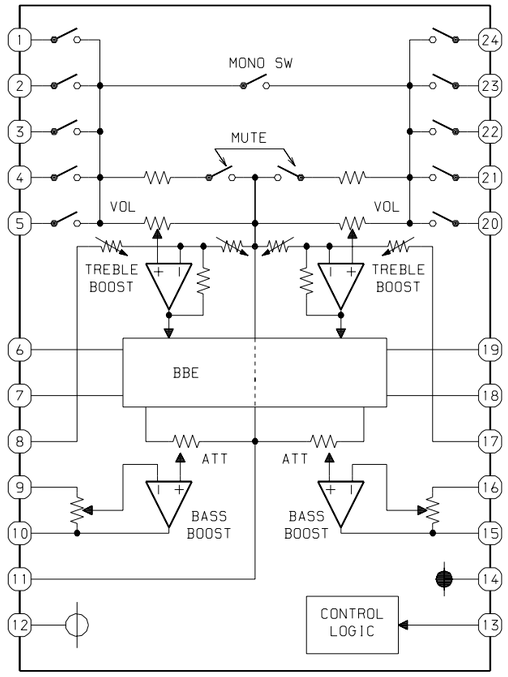
IC, BA3835F



IC, LC72131D



IC, M61503FP



IC DESCRIPTION

IC, LC866560W-5V01

Pin No.	Pin Name	I/O	Description
1	O-$\overline{\text{C-SHIFT}}$	O	Clock shift output for micro computer when tuner receiving broadcast.
2	O-POWER	O	Power control ON/$\overline{\text{OFF}}$ output.
3	O-2PB	O	DECK 2 / DECK 1 play output.
4	O-$\overline{\text{PANE-LED}}$	O	Moving PANEL LED ON/OFF output (Not used).
5	O-DATA	O	Data output.
6	O-RMT	O	REC MUTE output.
7	O-BIAS	O	Bias ON/OFF output.
8	O-MUTE	O	System MUTE ON/OFF.
9	O-TU-ON/ O-STB-SHIFT-VCD	O	Tuner power supply ON/$\overline{\text{OFF}}$ output/MICON standby shift VCD output.
10	O-$\overline{\text{PANO-LED}}$	O	Panorama LED ON/OFF output (Not used).
11	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
12	RESET	I	Reset input for MICON.
13	I-DISH	I	CD turnable photo sensor input.
14	I-SUBQ	I	SUB-Q data input.
15	VSS1	—	Connected to ground.
16	CF1	I	Oscillator circuit input.
17	CF2	O	Oscillator circuit output.
18	VDD1	—	Digital power supply pin.
19	I-$\overline{\text{HOLD}}$	I	Power failure detected input.
20	I-KEY1	I	Key A/D input 1.
21	I-KEY2	I	Key A/D input 2.
22	I-KEY3	I	Key A/D input 3.
23	I-PANEL-SW	I	Panel OPEN/CLOSE detect switch AD input.
24	I-JOG	I	Dial jog rotary encoder input .
25	I-SPEANA	I	Spectrum analyser level detection.
26	I-CDSW	I	CD mehca switch input.
27	I-WRQ	I	CD WRQ input.
28	I-TM-BASE	I	Reference clock input for timer switch.
29	I-RMC	I	System remote control signal input. "L" : ACTIVE
30 ~ 41	G12 ~ G1	O	FL grid G12 ~ G1 output.
42 ~ 45	P35 ~ P32	O	FL segment P35 ~ P32 output.
46	VDD3	—	Digital power supply pin.
47	P31	O	FL segment P31 output.
48	SPEANA-A/P30	O	Spectrum analyser BPF switching control A output/FL segment P30 output.
49	SPEANA-B/P29	O	Spectrum analyser BPF switching control B output/FL segment P29 output.
50	SPEANA-C/P28	O	Spectrum analyser BPF switching control C output/FL segment P28 output.
51	VP	—	Power supply for FL.
52 ~ 53	P27 ~ P26	O	FL segment P27 ~ P26 output.
54	ECO-OFF/P25	I/O	ECO-OFF data input<LH only>/FL segment P25 output.
55	LW/P24	I/O	LW diode input (Not used)/FL segment P24 output.

Pin No.	Pin Name	I/O	Description
56	KARAOKE/P23	I/O	Karaoke input to diode<LH only>/FL segment P23 output.
57	DEMO/P22	I/O	Demo (on the stop) diode input (Not used)/FL segment P22 output.
58	DOLBY/P21	I/O	DECK DOLBYdiode input (Not used)/FL segment P21 output.
59	AM-ST/P20	I/O	AM-ST select diode (Not used)/FL segment P20 output.
60	$\overline{\text{SOFT}}$/P19	I/O	DECK SOFT diode input (Not used)/FL segment P19 output.
61	SW/P18	I/O	SW diode input (Not used)/FL segment P18 output.
62	FM1/P17	I/O	FM1 diode input (Not used)/FL segment P17 output.
63	PANO/P16	I/O	Panorama diode input (Not used)/FL segment P16 output.
64	AM-9K/10K/P15	I/O	AM-9K/10Kselect diode input/FL segment P15 output.
65	CASINO/P14	I/O	Initial casino diode input<LH only>/FL segment P14 output.
66	$\overline{\text{REA}}$/P13	I/O	DECK2 side A recordable switch. "L" : REC/FL segment P13 output.
67	$\overline{\text{CST1}}$/P12	I/O	DECK1 cassette detection switch data input. "L" : ON/FL segment P12 output.
68	$\overline{\text{CAM1}}$/P11	I/O	DECK1 CAM STOP switch data input. "L" : ON/FL segment P11 output.
69	$\overline{\text{AUTO2}}$/P10	I/O	DECK2 AUTO STOP switch data input/FL segment P10 output.
70	$\overline{\text{AUTO1}}$/P9	I/O	DECK1 AUTO STOP switch data input/FL segment P9 output.
71	$\overline{\text{CAM2}}$/P8	I/O	DECK2 CAM switch data input. "L" : ON/FL segment P8 output.
72	VDD4	—	Digital power supply pin.
73	$\overline{\text{REB}}$/P7	I/O	DECK2 side B recordable switch. "L" : REC<LH only>/FL segment P7 output.
74	$\overline{\text{CST2}}$/P6	I/O	DECK2 cassette detection switch data input. "L" : ON/FL segment P6 output.
75	M-GEO/P5	I/O	Manual GEQ diode input (Not used)/FL segment P5 output.
76	R+1/P4	I/O	DECK R+1 diode input (Not used)/FL segment P4 output.
77	1+1/P3	I/O	DECK 1+1 diode input<U only>/FL segment P3 output.
78	$\overline{\text{P-CL}}$/P2	I/O	(Not used)/FL segment P2 output.
79	$\overline{\text{P-OP}}$/P1	I/O	(Not used)/FL segment P1 output.
80	$\overline{\text{BOX1}}$	I	Cassette BOX1 open/close detect input.
81	$\overline{\text{BOX2}}$	I	Cassette BOX1 open/close detect input.
82	I-VOL2	I	Volume rotary encoder input 2.
83	I-VOL1	I	Volume rotary encoder input 1.
84	I-IFC	I	Tuner IF count input.
85	O-MP-CL	O	Moving panel close output.
86	O-MP-OP	O	Moving panel open output.
87	O-PLL CE	O	Tuner PLL IC chip enable output.
88	$\overline{\text{O-KSCAN}}$	O	Initial scan output.
89	VSS2	—	Connected to ground.
90	VDD2	—	Digital power supply pin.
91	$\overline{\text{STBY-LED}}$	O	Standby LED ON/OFF output. "L" : ON
92	O-$\overline{\text{MOTOR}}$	O	Cassette deck motor control output.
93	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
94	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
95	O-CD DATA	O	CD IC control data output.
96	O-CD CLK	O	CD IC control clock output.

Pin No.	Pin Name	I/O	Description
97	O-CD CE	O	CD data chip enable output.
98	I-STEREO/I-DRF	I	Tuner stereo detect input/RF (radio frequency) detect.
99	O-P-DATA	O	Panorama IC data output (Not used).
100	O-CLK	O	PLL IC clock output.

ADJUSTMENT <TUNER / DECK / FRONT>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz and check that the test point is less than 8.5V. Then set to AM 530kHz and check that the test point is more than 0.6V.

3. AM Tracking Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : L951(1/3)
   Method : Set to AM 1000kHz and adjust L951(1/3) so that the test point becomes maximum.

4. FM VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L906
   Method : Set to FM 108.0MHz and adjust L906 so that the test point becomes 7.0V±0.1V.

5. FM Tracking Adjustment
   Settings : • Test point : TP5(Lch), TP6(Rch)
   • Adjustment location : L903
   Method : Set to FM 87.5 MHz and adjust L903 so that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP5(Lch), TP6(Rch)
   • Adjustment location :
   L802.....450kHz

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP5 (Lch), TP6 (Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V±300mV.
   Then check that the distortion is less than 1.2%

< DECK SECTION >

1. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz (FWD) and ± 45Hz (REV) with respect to forward speed.

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300
   • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
   Next, perform on REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–330
   • Test point :TP5(Lch), TP6(Rch)
   Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB ± 5dB.

4. REC/PB Frequency Response Adjustment (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP5(Lch), TP6(Rch)
   • Adjustment location : SFR451(Lch)
   SFR452(Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP5, TP6 becomes 10mV. Record and play back the 1kHz and 8kHz signal and adjust SFRs so that the output of the 8kHz signals is 0dB ± 1dB with respect to that of the 1kHz signal.

5. REC/PB Sensitivity Check (DECK 2)
   Settings : • Test tape : TTA–602
   • Test point : TP5(Lch), TP6(Rch)
   • Input signal : 1kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 80mV. Record and play back the 1kHz signals and check that the output is –1dB ± 3.5dB.

6. PB Sensitivity Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–200
   • Test point :TP5 (Lch), TP6 (Rch)
   Method : Play back the test tape and check that the output level of the test point is 110mV ± 3dB.

< FRONT SECTION >

1. μ-CON OSC Adjustment
   Settings : • Test point : TP7 (K-SCAN) and TP8 (GND)
   • Adjustment location : L151
   Method : Insert AC plug while pressing tuner function key and power key. Adjust L151 so that the frequency at the test point is 141.67Hz ± 0.14Hz.

CD TEST MODE

1. How to Start the CD Test Mode

While pressing the FUNCTION button, insert the AC plug to the power outlet.
When the test mode is started, the message [CD TEST] is displayed.

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC plug.
* When any key other than PLAY is pressed during play mode, the machine exits the test mode.

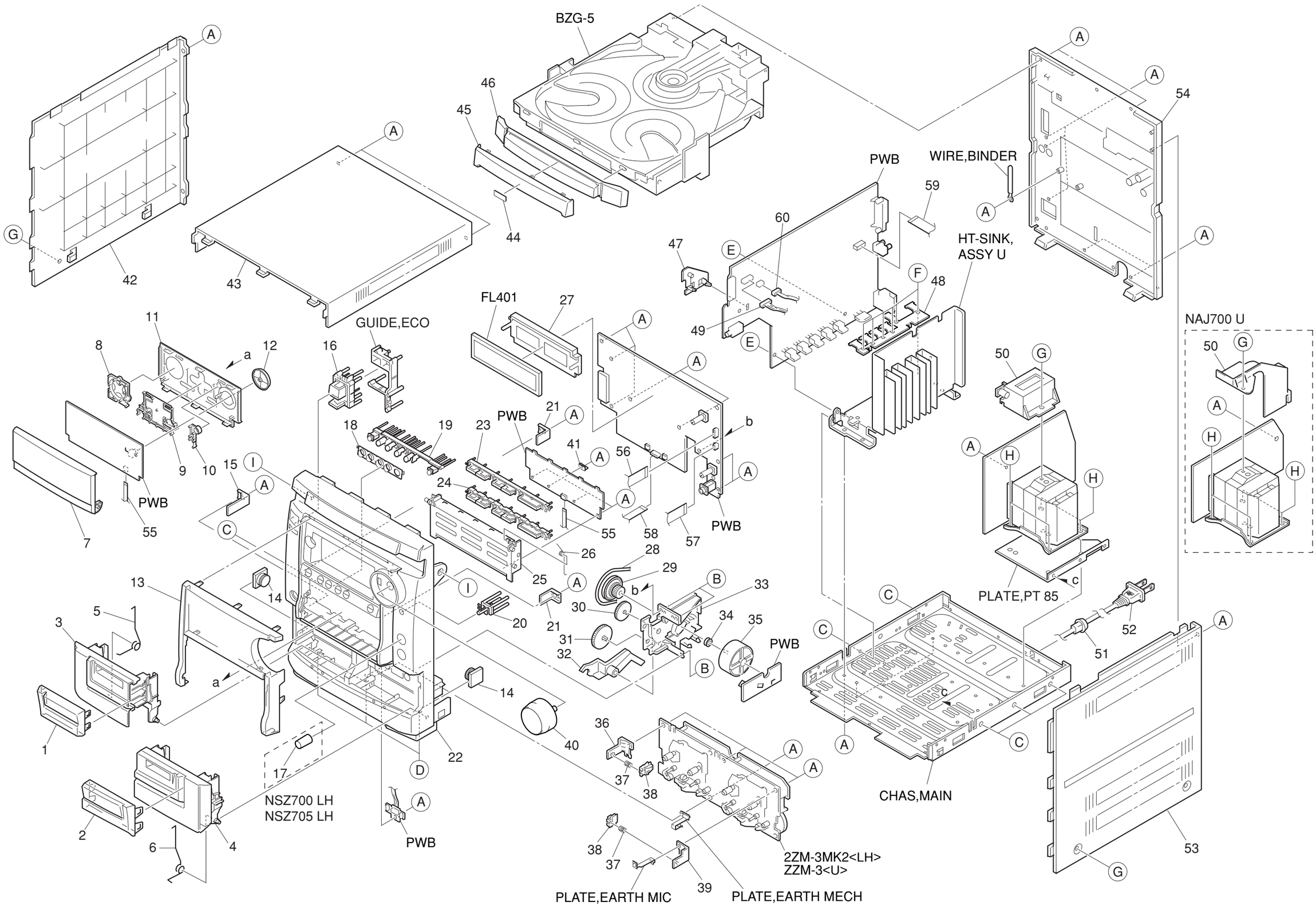
3. Function Descriptions and Application of the CD Test Mode

No	Mode	Operation	Display	Function	Checking item
1	Start mode		All indicators light	• All FL indicators light	• FL check • Microprocessor check
2	Search mode	STOP button	READING	• LD illuminates all the time • Focus search continuous operations *1 • Spindle motor continuous kick	• APC circuit check • Laser current measurement • Focus search waveform check • Focus error waveform check (DRF in the search mode is ignored)
3	Play mode	Play button	Normal	• Normal playback • If TOC cannot be read, focus search is continued	• Each servo circuit is checked • DRF check
4	Traverse mode	PAUSE button	Normal	• Tracking servo OFF/ON • Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON	• Tracking balance check
5	Sled mode	FF button	CD TEST	• Pickup moves to the inner circumference *2 At the same time, lens kicks to the inner circumference	• Sled circuit check • Tracking circuit check • Mechanism operation check • Pickup check
		RWD button	CD TEST	• Pickup moves to the outer circumference *2 At the same time, lens kicks to the outer circumference	
6	Spindle mode	REC/REC MUTE button	All indicators light	• The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again	• Spindle circuit • Spindle motor

*1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations can not be performed correctly.
In such a case, turn off the main power. After cooling down the machine, restart the machine.

*2: Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

MECHANICAL EXPLODED VIEW 1 / 1



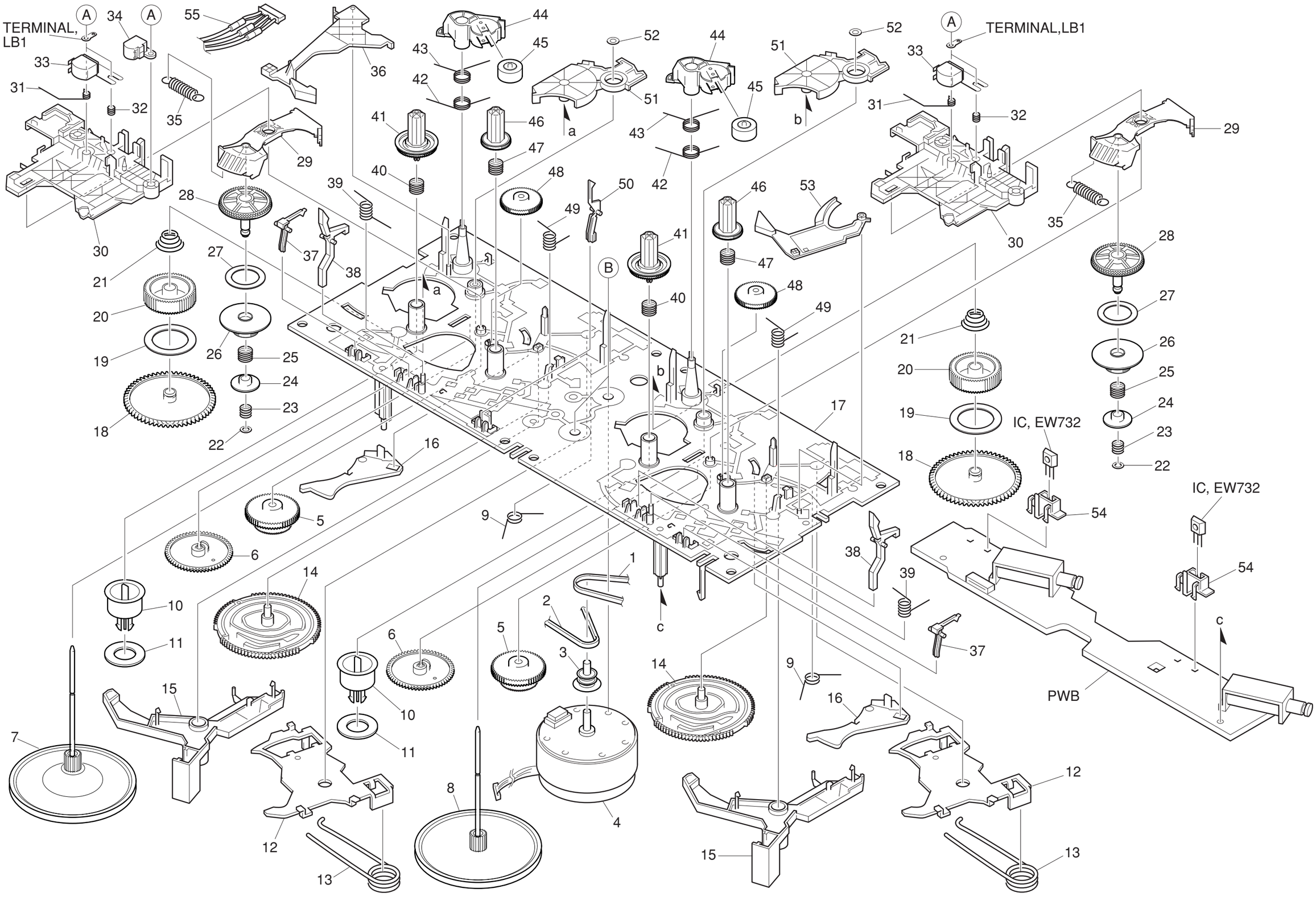
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NF7-007-010		WINDOW,CASS 1
2	8B-NF7-008-010		WINDOW,CASS 2
3	8B-NF7-041-010		BOX,CASS 1 1WAY<U>
3	8B-NF7-003-010		BOX,CASS 1 REV<EXCEPT U>
4	8B-NF7-042-010		BOX,CASS 2 1WAY<U>
4	8B-NF7-004-010		BOX,CASS 2 REV<EXCEPT U>
5	8A-NF8-281-010		SPR-T,EJECT 1
6	8A-NF8-282-010		SPR-T,EJECT 2
7	8B-NFJ-002-010		PANEL,MOVE 1F H<700 LH>
7	8B-NFJ-016-010		PANEL,MOVE 1F H 705<705 LH>
7	8B-NFJ-001-010		PANEL,MOVE 1F U<U>
8	8B-NF7-030-010		KEY,CD
9	8B-NF7-050-010		KEY,ASSY OPE 1WAY<U>
9	8B-NF7-022-010		KEY,ASSY OPE REV<EXCEPT U>
10	8B-NF7-031-010		KEY,ENTER
11	8B-NF7-044-010		PANEL,MOVE 1R EZ<U>
11	8B-NF7-045-010		PANEL,MOVE 1R H<EXCEPT U>
12	8B-NF7-013-010		KNOB,RTRY JOG
13	8B-NF7-067-010		WINDOW,DISP H<700 LH>
13	8B-NFJ-021-010		WINDOW,DISP U<EXCEPT 700 LH>
14	8Z-NF6-210-010		DMPR,150 N
15	8B-NF7-221-010		HLDR,PANEL
16	8B-NF7-015-010		KEY,ASSY POWER
17	8B-NF7-014-010		KNOB,RTRY MIC<EXCEPT U>
18	8B-NFJ-010-010		RING,FUN 4
19	8B-NFJ-007-010		KEY,ASSY FUN 4
20	8B-NF7-037-010		KEY,PANEL
21	8B-NF7-223-010		HLDR,PANEL 2
22	8B-NFJ-012-010		CABI,FR H<EXCEPT U>
22	8B-NFJ-011-010		CABI,FR U<U>
23	8B-NF7-029-010		KEY,BBE
24	8B-NF7-055-010		KEY,TIMER H<EXCEPT U>
24	8B-NF7-032-010		KEY,TIMER U<U>
25	8B-NFJ-026-010		PANEL,MOVE 2H<EXCEPT U>
25	8B-NF7-011-010		PANEL,MOVE 2U<U>
26	8B-NF7-220-010		SPR-T,OPEN
27	8A-NF6-201-010		GUIDE,FL
28	8B-NF7-214-010		BELT,SQ 1.8-113.5
29	8B-NF7-213-010		PULLEY,RELAY
30	8B-NF7-212-010		GEAR,RELAY
31	8B-NF7-211-010		GEAR,PANEL
32	8B-NF7-217-010		LEVER,SW
33	8B-NF7-210-010		HLDR,MECHA
34	84-ZG1-267-010		PULLEY,LOAD MO 8
35	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
36	87-NF4-216-010		HLDR,LOCK 1
37	86-NF9-224-010		SPR-C,LOCK
38	82-NF5-229-010		PLATE,LOCK
39	87-NF4-217-110		HLDR,LOCK 2
40	8B-NF7-012-010		KNOB,RTRY VOL
41	8B-NF7-222-010		HLDR,STOP
42	8A-NF8-007-010		PANEL,LEFT V-2
43	8B-NF7-039-010		PANEL,TOP V-2 BNFK
44	87-CE3-023-010		BADGE,AIWA 30N SILV
45	8B-NF7-035-010		WINDOW,TRAY
46	8B-NF7-005-010		PANEL,TRAY
47	8A-NF8-206-010		HLDR,PWB M
48	8B-NF7-239-010		HLDR,TR U<EXCEPT U>
48	8B-NF7-239-010		HLDR,TR U<U>
49	87-NF6-616-010		CONN ASSY,8P RPB<EXCEPT U>
50	8B-NF7-208-010		HLDR,PT(76-60)<U>
50	8A-DB8-209-010		HLDR,PWB PT<EXCEPT U>
51	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT U>
⚠ 51	87-A91-422-010		BUSHING,AC CORD(U)<U>
⚠ 52	87-A80-157-010		AC CORD ASSY,E BLK CC<EXCEPT U>
⚠ 52	87-A80-149-010		AC CORD ASSY,U BLK<U>
53	8A-NF8-008-010		PANEL,RIGHT V-2
54	8B-NFJ-032-010		CABI,REAR LHSM<NSZ700 LH>
54	8B-NFJ-040-010		CABI,REAR LHSM 705<NSZ705 LH>
54	8B-NFJ-031-010		CABI,REAR USM<U>
55	88-904-091-110		FF-CABLE,4P 1.25 90MM
56	88-908-301-110		FF-CABLE,8P 1.25
57	88-905-151-110		FF-CABLE, 5P 1.25 150MM
58	88-915-101-110		FF-CABLE, 15P 1.25 100MM<EXCEPT U>
58	88-911-101-110		FF-CABLE,11P 1.25<U>
59	88-906-251-110		FF-CABLE,6P 1.25(RVS-FACE)
60	87-NF6-615-010		CONN ASSY,3P PB<EXCEPT U>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-758-010		BVT2+3-12 W/O SLOT
C	87-721-096-410		QT2+3-10 GLD
D	87-067-688-010		BVTT+3-6
E	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
F	87-067-579-010		TAPPING SCREW, BVT2+3-8
G	87-067-641-010		UTT2+3-8(W/O SLOT)BL
H	87-078-199-010		S-SCREW,ITC+4-10 R<EXCEPT U>
H	87-078-200-010		S-SCREW,ITC+4-8 R<U>
I	87-721-097-410		QT2+3-12 GLD

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

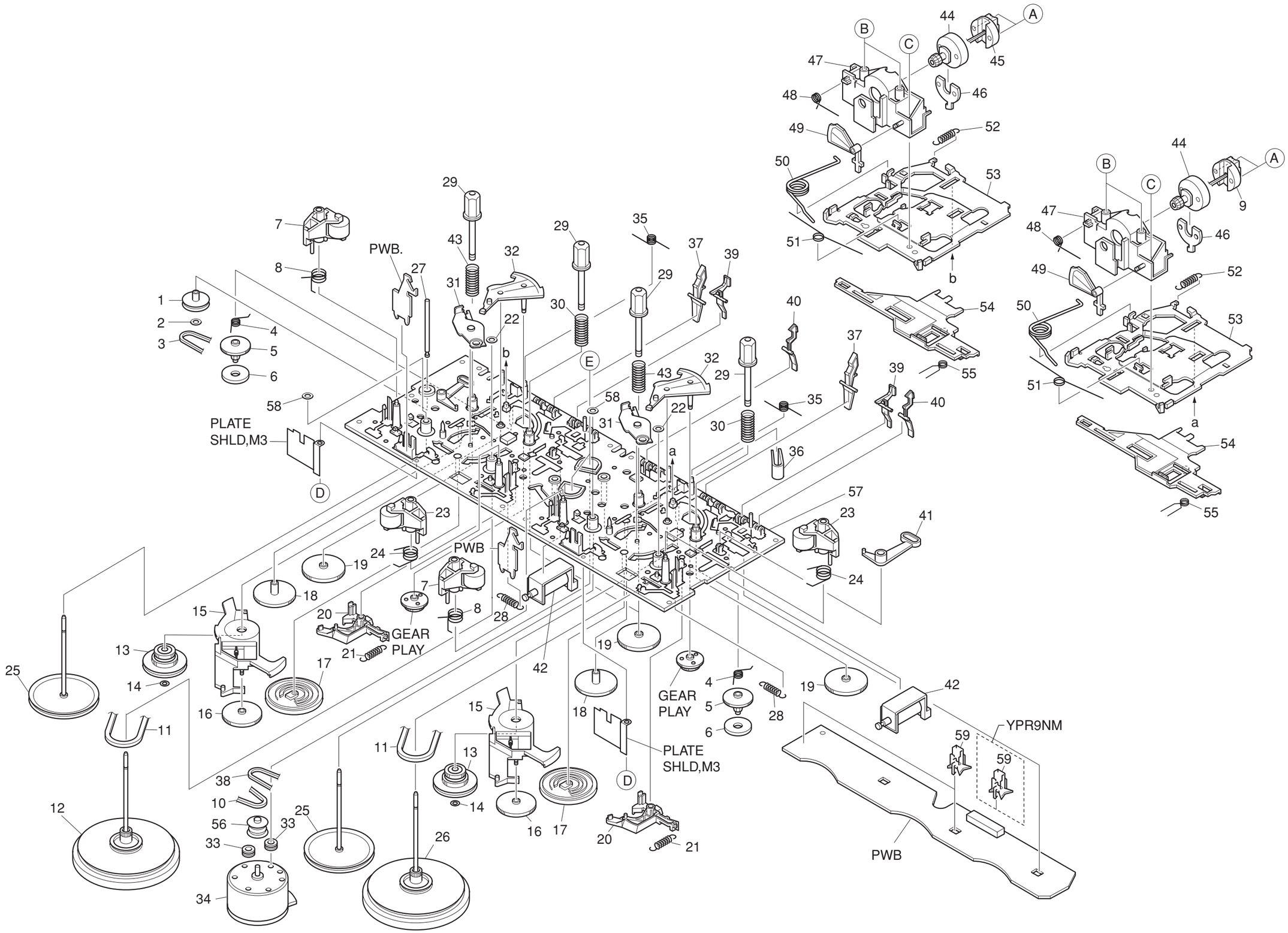
TAPE MECHANISM EXPLODED VIEW 1 / 1 <U>



TAPE MECHANISM PARTS LIST 1 / 1 <U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM3-227-010		BELT,MAIN M3
2	8Z-ZM3-235-010		BELT,MAIN L
3	8Z-ZM1-235-010		PULLEY,MOT
4	87-045-347-010		MOT,SHU2L 70
5	8Z-ZM1-232-010		GEAR,IDL FF/REW
6	8Z-ZM3-244-010		GEAR,CAM TD20
7	8Z-ZM3-256-010		FLY-WHL ASSY,M3 R
8	8Z-ZM3-255-010		FLY-WHL ASSY,M3 L
9	8Z-ZM3-231-010		SPR-T,TRIG
10	8Z-ZM3-213-010		CLR,MG
11	82-ZM3-616-010		RING MAGNET 4
12	8Z-ZM3-243-010		LEVER ASSY,HD UP
13	8Z-ZM3-238-010		SPR-T,HD UP
14	8Z-ZM3-219-010		GEAR,CAM M3
15	8Z-ZM3-206-010		LEVER,TRIG
16	8Z-ZM3-209-010		LEVER,CAM FR
17	8Z-ZM3-203-010		CHAS ASSY,M3
18	8Z-ZM1-228-010		GEAR,SLIP T-UP B
19	8Z-ZM1-265-010		FELT,T-UP
20	8Z-ZM1-227-010		GEAR,SLIP T-UP A
21	8Z-ZM1-251-110		SPR-C,T-UP SLIP
22	8Z-ZM1-275-010		W-L,1,47-4-0.25
23	8Z-ZM1-257-010		SPR-C,F/R
24	8Z-ZM1-236-010		CLR,SLIP FF/REW
25	8Z-ZM3-226-010		SPR-C,FR M3
26	8Z-ZM3-250-010		GEAR,SLIP F/R A M3
27	8Z-ZM1-269-010		FELT,FF/REW 2
28	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
29	8Z-ZM3-220-010		LEVER,FR M3
30	8Z-ZM3-205-010		LEVER,PLAY M3
31	8Z-ZM3-233-010		SPR-T,BRG M3
32	84-ZM2-227-310		SPR-C,AZIMUTH
33	87-A90-403-110		HEAD,RPH MS15R
34	87-A90-404-010		HEAD,EH LE15B
35	8Z-ZM3-239-010		SPR-E,FR
36	8Z-ZM3-211-010		LEVER,EJECT R
37	8Z-ZM3-225-010		LEVER,STOP
38	8Z-ZM3-221-010		LEVER,CAS
39	8Z-ZM3-234-010		SPR-T,LVR CAS
40	8Z-ZM3-223-010		SPR-C,REEL R M3
41	8Z-ZM1-225-110		GEAR,REEL R
42	8Z-ZM3-240-010		SPR-T,T-UP M3
43	8Z-ZM3-237-010		SPR-T,PINCH M3
44	8Z-ZM3-215-010		LEVER,PINCH M3
45	8Z-ZM1-261-110		ROLLER ASSY,PINCH
46	8Z-ZM1-226-010		GEAR,REEL L
47	8Z-ZM3-222-010		SPR-C,REEL L M3
48	8Z-ZM3-251-010		GEAR,IDL REW M3
49	8Z-ZM3-236-010		SPR-T,PLAY M3
50	82-ZM1-240-110		LVR,REC(*)
51	8Z-ZM3-216-010		LEVER,T-UP M3
52	87-B10-301-010		W-L,1.63-3.2-05 SLIT
53	8Z-ZM3-212-010		LEVER,EJECT L
54	8Z-ZM3-214-010		HLDR,IC
55	86-ZM3-605-110		CONN ASSY,8P -RPB
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM2-220-110		V+2.6 ZZM-2

TAPE MECHANISM EXPLODED VIEW 1 / 1 <LH>



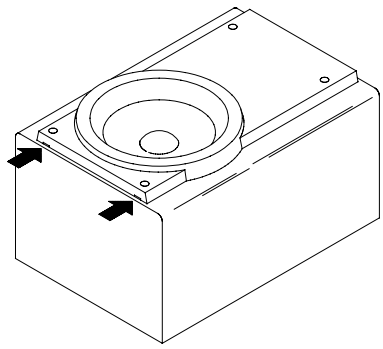
TAPE MECHANISM PARTS LIST 1 / 1 <LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-335-310		PULLEY,COUPLER M3
2	87-B10-043-010		W-P,0.99-4-0.25 SLT
3	86-ZM1-206-010		BELT,MAIN L
4	82-ZM1-322-010		SPR-T,FR 60
5	82-ZM1-220-210		GEAR,IDLER
6	82-ZM3-616-010		RING MAGNET 4
7	82-ZM1-341-210		LVR ASSY,PINCH L2
8	82-ZM1-258-210		SPR-T,PINCH L
9	87-A90-821-110		HEAD,RPH HADKH56 FPC
10	82-ZM3-342-010		BELT,SBU MOT 3
11	82-ZM1-338-110		BELT,FR 4
12	09-001-420-010		FLY-WHL,R ASSY
13	82-ZM3-333-310		SLIP DISK ASSY 2
14	82-ZM3-334-010		PW 2.16-6-0.4
15	82-ZM3-306-110		LVR,FR M2
16	82-ZM1-225-210		GEAR,FR
17	82-ZM3-305-310		GEAR,CAM M2(*)
18	82-ZM1-226-010		GEAR,REW
19	82-ZM1-216-510		GEAR,REEL
20	82-ZM1-227-310		LVR,TRIG
21	82-ZM1-265-310		SPR-E,TRIG
22	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
23	82-ZM1-344-210		LVR ASSY,PINCH R2
24	82-ZM1-259-210		SPR-T,PINCH R
25	82-ZM1-234-310		FLY-WHL,L ASSY
26	82-ZM1-237-610		FLY-WHL,R ASSY
27	82-ZM3-339-110		SHAFT,COUPLER N3
28	82-ZM1-255-310		SPR-E,LVR DIR
29	82-ZM1-217-410		REEL TABLE
30	82-ZM1-285-410		SPR-C,BT L
31	82-ZM1-333-210		PLATE,LINK2
32	82-ZM1-222-310		LVR,PLAY(*)
33	82-ZM3-307-010		CUSH-G,DIA3.7-8-3.2
34	87-045-347-010		MOT,SHU2L 70
35	82-ZM1-257-010		SPR-T,CAS
36	82-ZM3-340-010		SH,BELT D2
37	82-ZM1-242-010		LVR,CAS
38	82-ZM3-329-410		BELT,SBU R2
39	82-ZM1-243-010		LVR,STOP
40	82-ZM1-240-110		LVR,REC(*)
41	82-ZM1-264-010		LVR,EJECT R
42	82-ZM3-627-010		SOL ASSY 27 SO
43	82-ZM1-244-510		SPR-C,BT
44	82-ZM1-208-310		HLDR,HEAD
45	87-A90-820-110		HEAD,PH HADKH25 FPC
46	82-ZM1-314-110		PLATE,HEAD
47	82-ZM1-207-910		GUIDE,TAPE
48	82-ZM3-353-010		SPR-T,HEAD 2
49	82-ZM1-210-110		GEAR,H T
50	82-ZM1-219-110		SPR-T,LINK
51	82-ZM1-269-210		SPR-T,BRG
52	82-ZM1-218-010		SPR-E,HB
53	82-ZM1-206-910		CHAS,HEAD
54	82-ZM1-266-310		LVR,DIR
55	82-ZM1-214-010		SPR-T,DIR
56	82-ZM3-221-210		PULLEY,MOT 2M
57	82-ZM3-301-610		CHAS ASSY,M2
58	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
59	82-ZM3-351-010		HLDR,IC 2
A	80-ZM6-207-010		V+1.6-7
B	86-ZM4-206-110		S-SCREW,AZIMUTH L
C	85-ZM3-202-010		S-SCREW,TG
D	82-ZM3-222-010		S-SCREW,SHILD PLATE
E	82-ZM3-318-110		S-SCREW W,MOTOR M2

GENERAL SPEAKER DISASSEMBLY INSTRUCTIONS (FOR REFERENCE)

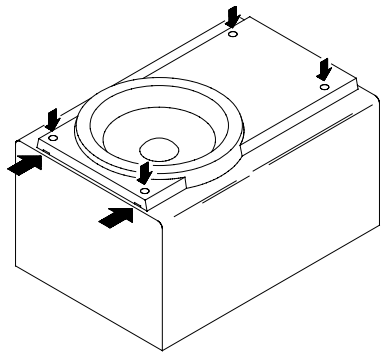
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



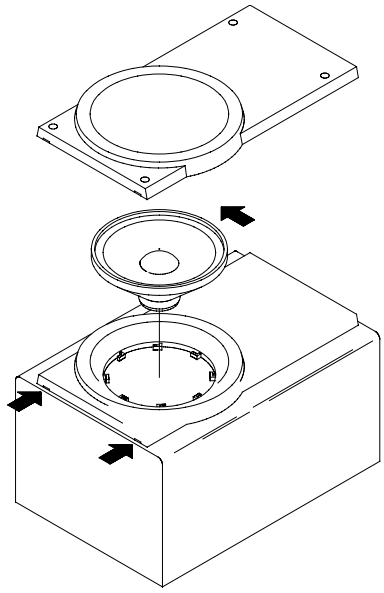
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

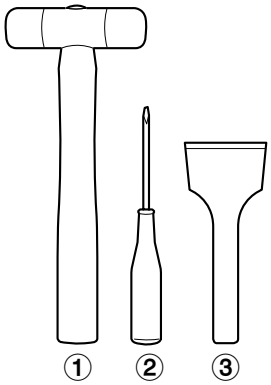


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

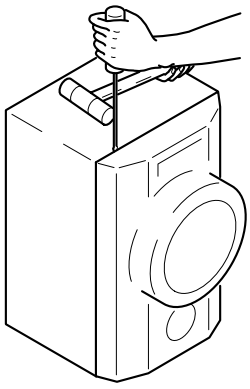


Fig-1

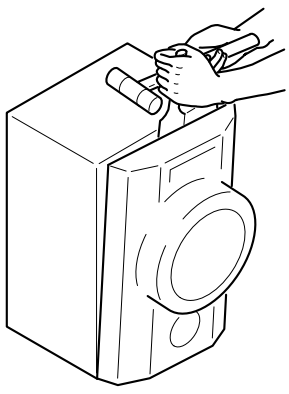


Fig-2

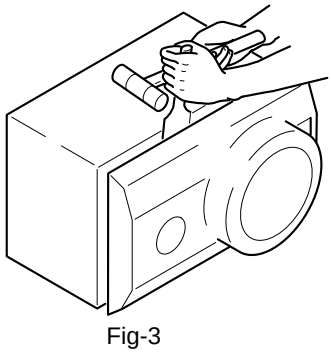


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST <SX-NAJ702 (YUSC), SX-NSZ705 (YLSC)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NSJ-001-010		PANEL,FR
2	8B-NSJ-003-010		PANEL,DUCT
3	8B-NSJ-004-010		PROTECTOR
4	8B-NSJ-602-010		SPKR, W 160
5	8B-NSJ-604-010		SPKR, TW 60
6	8B-NSJ-612-010		CORD, SPKR

SPEAKER PARTS LIST <SX-WNSZ703 (YLSL)>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS8-001-010		PANEL,FR
2	8B-NS8-002-010		PANEL,SP A
3	8B-NS8-003-010		PANEL,SP B
4	8B-NS8-004-010		PANEL,DUCT
5	8B-NS8-007-010		PROTECTOR,M
6	8B-NS8-602-010		SPKR, W 160R 35/4
7	8B-NS8-604-010		SPKR, M 100W
8	88-NSK-610-010		SPKR,CERAMIC ASSY
9	88-NS5-610-010		CORD, SPKR

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NFJ-902-010		IB,LH(ESP)M<LH>
1	8B-NFJ-903-010		IB,U(ESF)M<U>
2	8B-NF7-702-010		RC UNIT,RC-BAS02
⚠ 3	87-A91-017-010		PLUG,CONVERSION JT-0476<LH>
4	87-043-115-010		FEEDER-ANT,FM
5	87-A92-150-010		ANT,LOOP AM NO-CONT

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